



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 113842

TO: Minh-Tam Davis
Location: Rem 3a24 / 3c18
Tuesday, February 10, 2004
Art Unit: 1642
Phone: 272-0830
Serial Number: 10 / 032159

From: Jan Delaval
Location: Biotech-Chem Library
Rem 1A51
Phone: 272-2504

jan.delaval@uspto.gov

Search Notes

priority date 12/2000

113 842

From: Chan, Christina
Sent: Monday, February 09, 2004 10:11 AM
To: Davis, Minh-Tam; STIC-Biotech/ChemLib
Subject: RE: Rush search request for 10/032159

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STIC/BIOTECH/CHEM LIB
(STIC)

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----

From: Davis, Minh-Tam
Sent: Sunday, February 08, 2004 11:02 AM
To: Chan, Christina
Subject: Rush search request for 10/032159

Please search in commercial database, issued patent files, PGPUB and interference:
SEQ ID NO:17, and 18, with and without size limitation to the size of the corresponding sequence.
Thank you.

MINH TAM DAVIS
ART UNIT 1642,
RESEM, ROOM 3A24, mb 3c18
272-0830

Searcher: Jan
Phone: 22504
Location: _____
Date Picked Up: 2/9
Date Completed: 2/6
Searcher Prep/Review: _____
Clerical: W
Online time: W

TYPE OF SEARCH: ☒

NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)

STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: ☒ _____
WWW/Internet: _____
Other (specify): _____

FT	Modified-site	698..703
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	710..715
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FT	Domain	766..834
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FT	Modified-site	823..828
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FT	Modified-site	853..858
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XX	W0200140468-A2.	
XX	07-JUN-2001.	
XX	01-DEC-2000; 2000WC-US32716.	
XX	03-DEC-1999; 99US-016A780.	
XX	18-FEB-2000; 2000US-0507533.	
XX	25-FEB-2000; 2000US-0513904.	
XX	10-OCT-2000; 2000US-0685791.	
XX	(MILL-) MILLENNIUM PHARM INC.	
XX	Bertin J.	
XX	WPI; 2001-367809/38.	
XX	N-PSDB; AAS05389.	
XX	Novel caspase recruitment domain (CARD) proteins, CARD-9, CARD-10, CARD-11, useful as targets for therapy, as immunogens, and in screening and detection assays -	

[illegible]

PD 12-SEP-2002.
XX 28-FEB-2002; 2002MO-US06147.
PF 02-MAR-2001; 2001US-0798412.
XX (MILL-) MILLENNIUM PHARM INC.
PA Bertin J;
XX MPI; 2002-698749/75.
XX N-PSDB; ABA00334.
DR CARD-9, CARD-10 or CARD-11 polypeptides and polynucleotides, useful for
XX treating disorders associated with inappropriate apoptosis or
XX lymphocyte activation, e.g. cancer
XX
XX Disclosure; Fig 14; 15pp; English.
XX
XX This sequence represents human caspase recruitment domain (CARD)-11.
XX CARD proteins play roles in apoptotic and inflammatory signalling
XX pathways. CARD-9, -10 and -11 participate in the network of
XX interactions that modulate caspase activity. They are thought to be
XX useful as modulating agents for regulating a variety of cellular
XX processes including cell growth and cell death. CARD proteins and
XX nucleic acids are useful for treating a disorder associated with
XX inappropriate apoptosis or lymphocyte activation or for diagnosing
XX subjects having or that are at risk of developing a disorder associated
XX with aberrant CARD-9, CARD-10 or CARD-11 expression or activity, such
XX as cancer e.g. melanoma, autoimmune disorders e.g. arthritis, or
XX neurological disorders e.g. Alzheimer's disease.
XX
XX Sequence 1147 AA;
SQ
Query Match 53.1%; Score 257; DB 23; Length 1147;
Best Local Similarity 53.3%; Pred. No. 3.4e-25;
Matches 48; Conservative 20; Mismatches 22; Indels 0; Gaps 0;
OY 1 EETIWMESHRRIVRCICPSRLTPYLRQAVLCQIDBEEVTHSPRLTNSAMRAGHLLD 60
DB 12 EDALWENVCNHRHMSRYINPAKLTPLYRQCKVIDEDDEVLANPMLPSKINRAGRLD 71
OY 61 LKTRGKNGAIAPLESIKFHNPDVYTVTG 90
DB 72 IHTKGQGVVFLSELEFYFELVLTG 101
RESULT 6
ABG76061
ID ABG76061 standard; protein; 1247 AA.
AC ABG76061;
XX
XX 09-MAY-2003 (first entry)
XX
XX Human caspase recruitment domain containing protein, CARD-11X.
XX
XX CARD; caspase recruitment domain; apoptosis; cell adhesion; inflammation;
XX cytokine receptor signalling; cancer; glioma; carcinoma; adenocarcinoma;
XX CARD-containing polypeptide associated disorders; sarcoma; melanoma;
XX hematoma; leukemia; lymphoma; keratinocyte hyperplasia; neoplasia;
XX keloid; benign prostatic hyperplasia; inflammatory hyperplasia; fibrosis;
XX restenosis; allergy; arthritis; lupus; Sjogren's syndrome; sepsis; human;
XX Crohn's disease; ulcerative colitis; graft versus host disease; stroke;
XX abnormal cell death disease; myocardial infarction; heart failure;
XX neurodegenerative disease; Parkinson's disease; Alzheimer's disease; HIV;
XX CARD-11X; caspase activator; caspase inhibitor.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX 12..103
XX Domain /label= CARD

FT /note= "Caspase recruitment domain. Specifically
FT claimed in claim 12"
FT Domain 388..1344
FT /label= ERM domain
FT /note= "Ezrin/radixin/moesin domain. Specifically
FT claimed in claim 12"
FT Domain 2175..2514
FT /label= PDZ domain
FT /note= "Post synaptic density disc-large zo-1 domain.
FT Specifically claimed in claim 12"
XX
XX US2002164703-A1.
XX
XX 07-NOV-2002.
XX
XX 19-DEC-2001; 2001US-0032159.
XX
XX 21-DEC-2000; 2000US-257457P.
XX
XX (PAML/) PAWLOWSKI K.
XX (REED/) REED J C.
XX (GODZ/) GODZIK A.
XX
XX Pawlowski K, Reed JC, Godzik A;
XX MPI; 2003-288137/28.
XX N-PSDB; ABX11430.
XX
XX New isolated CARD-containing nucleic acids, useful for the diagnosis
XX and treatment of disorders with aberrant expression or activity of the
XX CARD-containing polypeptide, such as cancer, stroke, arthritis, heart
XX failure and AIDS
XX
XX Claim 11; Fig 2; 34pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule encoding a
XX caspase recruitment domain (CARD) containing polypeptide. CARD containing
XX polypeptides are involved in apoptosis (as caspase activators and caspase
XX inhibitors), cell adhesion, inflammation and cytokine receptor
XX signalling. The methods and compositions of the present invention are
XX useful for the diagnosis and treatment of disorders associated with the
XX aberrant expression or activity of the CARD containing polypeptide such
XX as cancer, glioma, carcinoma, adenocarcinoma, sarcoma, melanoma, keloid,
XX hamatoma, leukemia, lymphoma, keratinocyte hyperplasia, neoplasia,
XX benign prostatic hyperplasia, inflammatory hyperplasia, fibrosis,
XX restenosis, allergies, inflammatory diseases such as arthritis, lupus,
XX Sjogren's syndrome, Crohn's disease, ulcerative colitis, graft versus
XX host disease, sepsis, abnormal cell death diseases such as stroke,
XX myocardial infarction, heart failure, neurodegenerative diseases like
XX Parkinson's disease and Alzheimer's disease, and HIV infection. The
XX present sequence represents the amino acid sequence of the caspase
XX recruitment domain containing protein, CARD-11X.
XX
XX Sequence 1247 AA;
SQ
Query Match 53.1%; Score 257; DB 24; Length 1247;
Best Local Similarity 53.3%; Pred. No. 3.8e-25;
Matches 48; Conservative 20; Mismatches 22; Indels 0; Gaps 0;
OY 1 EETIWMESHRRIVRCICPSRLTPYLRQAVLCQIDBEEVTHSPRLTNSAMRAGHLLD 60
DB 12 EDALWENVCNHRHMSRYINPAKLTPLYRQCKVIDEDDEVLANPMLPSKINRAGRLD 71
OY 61 LKTRGKNGAIAPLESIKFHNPDVYTVTG 90
DB 72 IHTKGQGVVFLSELEFYFELVLTG 101
RESULT 7
AAU01206
ID AAU01206 standard; Protein; 1032 AA.
XX
XX AAU01206;

[illegible]

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FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	595..598
FT	Modified-site	/note= "N-glycosylation site"
FT	Modified-site	603..605
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	638..641
FT	Modified-site	/note= "Glycosaminoglycan attachment site"
FT	Modified-site	642..644
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	656..661
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	681..684
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	690..693
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	704..772
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FT	Modified-site	/note= "SH3 domain"
FT	Modified-site	712..715
FT	Modified-site	/note= "N-glycosylation site"
FT	Modified-site	714..717
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	733..739
FT	Modified-site	/note= "Tyrosine kinase phosphorylation site"
FT	Modified-site	748..751
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	754..756
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	754..757
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	761..766
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	782..784
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	809..814
FT	Modified-site	/note= "N-myristoylation site"
FT	Domain	
FT	Modified-site	830..1032
FT	Modified-site	/note= "Guanylate kinase (GUK) domain"
FT	Modified-site	830..832
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	868..870
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	869..872
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	882..885
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FT	Modified-site	893..898
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	915..918
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FT	Modified-site	947..949
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	981..986
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	1021..1026
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	1022..1024
FT	Modified-site	/note= "Protein kinase C phosphorylation site"
FT	Modified-site	1028..1031
FT	Modified-site	/note= "Casein kinase II phosphorylation site"
FN	WO200140468-A2.	
PD	07-JUN-2001.	
PR	01-DEC-2000; 2000WO-US32716.	
PR	03-DEC-1999; 99US-0168780.	
PR	18-FEB-2000; 2000US-0507533.	
PR	25-FEB-2000; 2000US-0519004.	
PR	10-OCT-2000; 2000US-0685791.	
XX		

PA (MILL-) MILLENNIUM PHARM INC.
 XX
 PI Bertin J;
 XX
 DR WPI; 2001-367809/38.
 DR N-PSDB; AAS05386.
 XX
 PT Novel caspase recruitment domain (CARD) proteins, CARD-9, CARD-10,
 PT CARD-11, useful as targets for therapy, as immunogens, and in screening
 PT and detection assays -
 XX
 PS Claim 9, Fig 10A-10C; 145bp; English.
 XX
 CC The present sequence represents novel human caspase recruitment
 CC domain, CARD-10. The polynucleotide encoding this sequence was isolated
 CC from a human skin cDNA library. Also described are novel human sequences
 CC for CARD-9 and CARD-11 (AAU01205, AAU01207) and rat CARD-9 (AAU01204).
 CC CARD-9, CARD-10 and CARD-11 interact with Bcl-10 which is thought to
 CC activate nuclear factor (NF)-kappaB and apoptosis. The sequences of the
 CC invention can be used for treating a disorder associated with abnormal
 CC levels of apoptosis by modulating the expression or activity of CARD-9,
 CC CARD-10, or CARD-11. They can be used for the treatment of
 CC hyperproliferative disorders (e.g. cancer), autoimmune disorders (e.g.
 CC systemic lupus erythematosus), neurological disorders (e.g.
 CC Alzheimer's disease), inflammatory disorders (e.g. Crohn's disease),
 CC and viral infection (e.g. HIV). The CARD polypeptide, polynucleotide
 CC and an antibody which selectively binds to CARD can be used in screening
 CC and detection assays (e.g. chromosomal mapping, tissue typing),
 CC predictive medicine (prognostic assays, monitoring clinical trials, and
 CC therapy (treatment and prophylaxis). The CARD polypeptide may be used
 CC to screen for drugs that bind to and/or modulate it. CARD sequences are
 CC potential targets for regulating inflammation, cancer, NF-kappaB
 CC signalling, stress-related response and apoptosis in human disease. A
 CC host cell containing a polynucleotide encoding CARD can be used to
 CC create transgenic animals.
 CC
 XX
 SQ Sequence 1032 AA;
 Query Match 49.0%; Score 237; DB 22; Length 1032;
 Best Local Similarity 50.0%; Pred. No. 1.5e-22;
 Matches 45; Conservative 19; Mismatches 26; Indels 0; Gaps 0;
 QY 1 EETLWMMESHRRIVRCICPSRLTPYLQAKVLCQDDEEVVLSPLTNSMRAGHLLD 60
 DB 24 EDALMERIEGVRRRLAPALNPACTLPYLQCRVIDEODEEVVLSYRFPQVNRTRGLMD 83
 QY 61 LKTRGKGAIAPLESIKFKNPDVYTLVTG 90
 DB 84 ILRCRGKGYEAFLEALFEYFPHFTLLTG 113
 RESULT 8
 ID AAG79554 standard; Protein; 1032 AA.
 XX
 AC AAG79554;
 XX
 DT 09-DEC-2002 (first entry)
 XX
 DE Human CARD-10.
 XX
 KW Rat; human; caspase recruitment domain; CARD-9; CARD-10;
 KW CARD-11; apoptosis; inflammation; cell growth; cell death;
 KW lymphocyte activation; cancer; melanoma; autoimmune disease;
 KW arthritis; neurological disorder; Alzheimer's disease.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT 23..123
 FT /label= CARD_domain
 FT 147..457
 FT Domain /label= Coiled-coil_domain

FT Domain 704..772
 FT /label= SH3_domain
 FT 830..1032
 FT /label= Guanylate_kinase_domain
 FT 366..398
 FT /label= Tropomyosin_domain
 FT 457..1032
 FT Domain /label= MAGUK_domain
 PN WO200270652-A2.
 XX
 PD 12-SEP-2002.
 XX
 XX
 PF 28-FEB-2002; 2002WO-US06147.
 XX
 XX
 PR 02-MAR-2001; 2001US-0798412.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 PI Bertin J;
 XX
 DR WPI; 2002-698749/75.
 DR N-PSDB; ABA00333.
 XX
 PT CARD-9, CARD-10 or CARD-11 polypeptides and polynucleotides, useful for
 PT treating disorders associated with inappropriate apoptosis or
 PT lymphocyte activation, e.g. cancer -
 XX
 PS Claim 14, Fig 10; 151bp; English.
 CC This sequence represents human caspase recruitment domain (CARD)-10.
 CC CARD proteins play roles in apoptotic and inflammatory signalling
 CC pathways. CARD-9, -10 and -11 participate in the network of
 CC interactions that modulate caspase activity. They are thought to be
 CC useful as modulating agents for regulating a variety of cellular
 CC processes including cell growth and cell death. CARD proteins and
 CC nucleic acids are useful for treating a disorder associated with
 CC inappropriate apoptosis or lymphocyte activation or for diagnosing
 CC subjects having or that are at risk of developing a disorder associated
 CC with aberrant CARD-9, CARD-10 or CARD-11 expression or activity, such
 CC as cancer e.g. melanoma, autoimmune disorders e.g. arthritis, or
 CC neurological disorders e.g. Alzheimer's disease.
 CC
 XX
 SQ Sequence 1032 AA;
 Query Match 49.0%; Score 237; DB 23; Length 1032;
 Best Local Similarity 50.0%; Pred. No. 1.5e-22;
 Matches 45; Conservative 19; Mismatches 26; Indels 0; Gaps 0;
 QY 1 EETLWMMESHRRIVRCICPSRLTPYLQAKVLCQDDEEVVLSPLTNSMRAGHLLD 60
 DB 24 EDALMERIEGVRRRLAPALNPACTLPYLQCRVIDEODEEVVLSYRFPQVNRTRGLMD 83
 QY 61 LKTRGKGAIAPLESIKFKNPDVYTLVTG 90
 DB 84 ILRCRGKGYEAFLEALFEYFPHFTLLTG 113
 RESULT 9
 ID AAU73247 standard; Protein; 1032 AA.
 XX
 AC AAU73247;
 XX
 DT 12-MAR-2002 (first entry)
 XX
 DE Human plakoglobin interacting protein #3.
 XX
 KW Human; plakoglobin; cytosolic; osteopathic; dermatological; cardiant;
 KW plakoglobin related disease; skin carcinoma; acantholytic disease;
 KW basal cell carcinoma; squamous cell carcinoma; Naxos disease;
 KW extramammary Paget's disease; heart disease; skin blistering;
 KW subcorneal acantholysis; Grover's disease; Halley-Halley's disease;

KM Darier's disease; ectodermal dysplasia; skin fragility syndrome.
 XX Homo sapiens.
 OS
 PN WO200185933-A2.
 XX
 PD 15-NOV-2001.
 PF 02-MAY-2001; 2001WO-EP04872.
 XX
 PR 09-MAY-2000; 2000EP-0201668.
 XX
 PA (VIAA-) VIAAMS INTERUNIVERSITAIR INST BIOTECHNOG.
 XX
 PI Van Roy F, Bonne S, Vanlandeschoot A;
 XX
 DR WPI; 2002-062246/08.
 DR N-PSDB; AAS98203.
 XX
 PT New polypeptide, useful for treating skin carcinoma or acantholytic
 PT disease such as Grover's and Darier's disease, comprises a protein
 PT interacting with human plakoglobin and involved in transduction of
 PT plakoglobin related signal to nucleus -
 XX
 PS Claim 1; Figure 3; 98p; English.
 XX
 CC The invention relates to an isolated plakoglobin interacting polypeptide
 CC (1). (1) is useful as a medicament and in the manufacture of a
 CC medicament for treating plakoglobin related diseases, such as skin
 CC carcinoma or an acantholytic disease, and to screen compounds that
 CC interfere with the interaction of the polypeptide with plakoglobin
 CC The plakoglobin related diseases include basal cell carcinoma, squamous
 CC cell carcinoma, extramammary Paget's disease, Naxos disease, heart
 CC diseases, skin blistering and acantholytic diseases such as subcorneal
 CC acantholysis, Grover's disease, Hailey-Hailey's disease or Darier's
 CC disease, and ectodermal dysplasia/skin fragility syndrome. AAU73245-
 CC AAU73254 represent novel human plakoglobin interacting protein
 CC amino acid sequences and related sequences of the invention.
 XX
 SQ Sequence 1032 AA;
 Query Match 49.0%; Score 237; DB 23; Length 1032;
 Query Local Similarity 50.0%; Pred. No. 1.5e-22;
 Matches 45; Conservative 19; Mismatches 26; Indels 0; Gaps 0;
 QY 1 ESTMEMESHRRHIVCTCPRLTPYLRQAKVLCQLEDEEVLSPTLTSAMKAGHLLD 60
 Db 24 EDALMERIEGVRRHRLARLNPAKLTPIYRCQVLDDEDEEVLSPTFPCKVNRGTSLMD 83
 QY 61 LKTRGKNGALAFLESLKFNHPDVTTLVTG 90
 Db 84 ILRCRGKRGVRAFLAELEFYYPHEFTLLTG 113
 RESULT 10
 AAU01204
 ID AAU01204 standard; Protein; 536 AA.
 XX
 AC AAU01204;
 XX
 DT 12-SEP-2001 (first entry)
 XX
 DE Rat caspase recruitment domain, CARD-9 polypeptide.
 XX
 KM Rat, caspase recruitment domain; CARD-9; Bcl-10; NF-kappaB;
 KM apoptosis; hyperproliferative disorder; autoimmune; neurological;
 KM inflammatory disorder; viral infection; stress-related response.
 XX
 OS Rattus sp.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 2..5
 FT /note="Casein kinase II phosphorylation site"

FT Domain
 FT /note= 7..98
 FT "CARD domain"
 FT Modified-site 12..15
 FT /note= 12..15
 FT "Casein kinase II phosphorylation site"
 FT Modified-site 16..18
 FT /note= 16..18
 FT "Protein kinase C phosphorylation site"
 FT Modified-site 23..26
 FT /note= 23..26
 FT "Casein kinase II phosphorylation site"
 FT Modified-site 92..95
 FT /note= 92..95
 FT "CAMP- and cGMP-dependent protein kinase
 FT phosphorylation site"
 FT Modified-site 95..97
 FT /note= 95..97
 FT "Protein kinase C phosphorylation site"
 FT Modified-site 95..98
 FT /note= 95..98
 FT "Casein kinase II phosphorylation site"
 FT Modified-site 138..140
 FT /note= 138..140
 FT "Protein kinase C phosphorylation site"
 FT Modified-site 138..141
 FT /note= 138..141
 FT "Casein kinase II phosphorylation site"
 FT Domain 140..416
 FT /note= 140..416
 FT "Coiled coil domain"
 FT Modified-site 171..174
 FT /note= 171..174
 FT "Casein kinase II phosphorylation site"
 FT Modified-site 176..183
 FT /note= 176..183
 FT "Tyrosine kinase phosphorylation site"
 FT Modified-site 197..213
 FT /note= 197..213
 FT "Indole-3-glycerol phosphate synthase
 FT homology region"
 FT Region 228..231
 FT /note= 228..231
 FT "CAMP- and cGMP-dependent protein kinase
 FT phosphorylation site"
 FT Modified-site 231..233
 FT /note= 231..233
 FT "Protein kinase C phosphorylation site"
 FT Modified-site 267..270
 FT /note= 267..270
 FT "Casein kinase II phosphorylation site"
 FT Region 285..338
 FT /note= 285..338
 FT "Cysteine rich repeat homology region"
 FT Modified-site 303..305
 FT /note= 303..305
 FT "Protein kinase C phosphorylation site"
 FT Modified-site 362..364
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 FT /note= 362..365
 FT "Casein kinase II phosphorylation site"
 FT Modified-site 374..377
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 FT Modified-site 514..516
 FT /note= 514..516
 FT "Protein kinase C phosphorylation site"
 FT Modified-site 523..528
 FT /note= 523..528
 FT "N-myristoylation site"
 FT Modified-site 524..527
 FT /note= 524..527
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 FT Modified-site 526..529
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 FT "Casein kinase II phosphorylation site"
 FT Modified-site 531..534
 FT /note= 531..534
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 XX
 PN WO200140468-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 01-DEC-2000; 2000WO-US32716.
 XX
 PR 03-DEC-1999; 99US-0168780.
 PR 18-FEB-2000; 2000US-0507533.
 PR 25-FEB-2000; 2000US-0513904.

KM neurodegenerative disorder; osteoarthritis; graft vs host disease;
KM cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
KM cholesterol ester storage; systemic lupus erythematosus; infection;
KM severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
KM bone damage; cartilage damage; antiinflammatory disease; coagulation;
KM thrombosis; contraceptive.

OS Homo sapiens.
XX
XX WO200058473-A2.
PN
PM
PD 05-OCT-2000.
PP
PF 31-MAR-2000; 2000WO-US086521.
PX
PY 31-MAR-1999; 99US-0127607.
PR 02-APR-1999; 99US-0127636.
PR 05-APR-1999; 99US-0127728.
PR 30-MAR-2000; 2000US-0540763.
PX
XX (CURA-) CURAGEN CORP.
PA
PI Shinkets RA, Leach M;
PI
XX WPI; 2000-602362/57.
DR N-PSDB; AAC75276.
DT

Novel nucleic acids and peptides derived from open reading frame X,
PT useful for treating e.g cancers, proliferative disorders,
PT neurodegenerative disorders and cardiovascular disease -
XX
XX Claim 11; Page 1326; 5507pp; English.

AAC74446 to AAC7606 encode the proteins given in AAB40237 to AAB43397,
CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
CC sequences have activities such as: cytostatic; hepatotropic; vlnnary;
CC antiproliferatic; antiparkinsonian; nootropic; neuroprotective;
CC osteopathic; anticoagulant; antiallergic; immunosuppressant;
CC immunostimulant; cardiant; thrombolytic; coagulant; vasotrophic;
CC antidiabetic; hypotensive; dermatologic; immunosuppressive;
CC antiinflamatory; antibacterial; antiviral; antifungal; antirheumatic;
CC antithyroid; and antianaemic. The sequences can be used for determining
CC the presence of or predisposition to, or preventing or treating
CC pathological conditions associated with an ORFX-associated disorder. The
CC nucleic acids can be used to express ORFX proteins in gene therapy
CC vectors. The proteins and nucleic acids may be used to treat cancers,
CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
CC graft vs host disease, cardiovascular disease, diabetes mellitus,
CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,
CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
CC nocturnal haemoglobinuria, antiinflammatory disease; to enhance
CC coagulation; to inhibit thrombosis; and as a contraceptive.

SQ Sequence 174 AA;

Query Match 41.1%; Score 199; DB 21; Length 174;
Best Local Similarity 45.6%; Pred. No. 1.9e-18;
Matches 41; Conservative 14; Missmatches 35; Indels 0; Gaps 0;

DG 1 EETLMMESHRRHVRVCICPSRLTPFYROAKVLCQLDEEFTLSRPRTNSAMAGHTLD 60
::
72 DEECNVALEGSRVTITSVIDBSRIIPYLRQCCKVNPDDECVLPDENLVIRKRVGVLLD 131
::
61 LKTRGNKAIAFLESLFKHPNDVTVLTG 90
::
DB 132 ILQRTHKGYYAFLESLFLYPOLKYKTG 161

RESULT 13
ABP10782

ID ABP10782 standard; Protein; 174 AA.
AC ABP10782;
XX
XX 24-JUN-2002 (first entry)
XX
XX Human ORFX protein sequence SEQ ID NO:21546.
DE
XX Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
XX hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
XX degenerative disorder; osteoarthritis; neurodegenerative disorder;
XX cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
XX hypercorticism; hypothyroidism; cholesterol ester storage disease;
XX immune deficiency; immune disorder; infectious disease;
XX autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
XX myasthenia gravis.
XX
XX Homo sapiens.
XX
XX WO200192523-A2.
XX
XX 06-DEC-2001.
XX
XX 29-MAY-2001; 2001WO-US10936.
XX
XX 30-MAY-2000; 2000US-206132P.
XX
XX 29-AUG-2000; 2000US-228716P.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Shinketsu RA, Leach MD;
XX
XX WPI; 2002-1065308/14.
XX
XX N-PSDB; ABN26534.
XX
XX Novel human polypeptides and polynucleotides useful for diagnosing,
XX preventing and treating cardiovascular disease, neurodegenerative,
XX hyperproliferative disorders and autoimmune disorders -
XX
XX Disclosure; SEQ ID 21546; 1037bp; English.
XX
XX The present invention describes substantially purified human proteins
XX (referred to as open reading frame, ORFX, where X is 1-1149; (see Table 1
XX in the specification). ABN15762 to ABN27252 encode the human ORFX
XX proteins given in ABP00010 to ABP11500. ORFX proteins are useful for
XX treating or preventing a pathology associated with an ORFX-associated
XX disorder in humans, and in the manufacture of a medicament for treating a
XX syndrome associated with ORFX-associated disorder. ORFX polynucleotide
XX sequences can be used in gene therapy. ORFX sequences can be used in the
XX treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
XX psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
XX osteoarthritis, neurodegenerative disorders, disorders related to organ
XX transplantation, cardiovascular diseases, diabetes mellitus, systemic
XX lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
XX storage disease, various immune deficiencies and disorders, infectious
XX diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
XX arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
XX disease and autoimmune inflammatory eye disease. ORFX proteins are also
XX useful for treating burns, incisions, ulcers, for treating osteoporosis,
XX bone degenerative disorders, or periodontal disease, and for gut
XX protection or regeneration and treatment of lung or liver fibrosis,
XX reperfusion injury in various tissues and conditions resulting from
XX systemic cytokine damage.
XX N.B. The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pat_sequences.
XX
XX Sequence: 174 AA;
XX
XX Query Match 41.1%; Score 199; DB 23; Length 174;
XX Best Local Similarity 45.6%; Pred. No. 1.9e-18;
XX Matches 41; Conservative 14; Mismatches 35; Indels 0; Gaps 0;

```

QY 1 EETLWEMESHRRIVRCICPSRLTPYLRQAKVLCQDDEEVLSPRLTNSMARAGHLTD 60
DB 72 DEECWNLVLEGFRVTLTSVIDPSRITPYLRQCKVLPDDEEQLSDPNLVRKRVGLLD 131
QY 61 LKTRGKGAIAFLSELYKFNPDVYTLVGTG 90
DB 132 ILQRTGKHGYAVFLSELYLPOLYKKVGTG 161

RESULT 14
AAB95617
ID AAB95617 standard; Protein; 366 AA.
AC AAB95617;
XX
XX 26-JUN-2001 (first entry)
DT
XX Human protein sequence SEQ ID NO:18328.
DE
XX Human; primer; detection; diagnosis; antisense therapy; gene therapy.
XX Homo sapiens.
XX EP1074617-A2.
XX 07-FEB-2001.
XX 28-JUL-2000; 2000EP-0116126.
XX 29-JUL-1999; 99JP-0248036.
XX 27-AUG-1999; 99JP-0300253.
XX 11-JAN-2000; 2000JP-0118776.
XX 02-MAY-2000; 2000JP-0183767.
XX 09-JUN-2000; 2000JP-0241899.
XX
XX (HELI-) HELIX RES INST.
XX
XX Ota T, Isogai T, Nishikawa T, Hayaishi K, Saito K, Yamamoto J;
XX Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
XX WPI; 2001-318749/34.
XX
XX Primer sets for synthesizing polynucleotides, particularly the 5602
XX full-length cDNAs defined in the specification, and for the detection
XX and/or diagnosis of the abnormality of the proteins encoded by the
XX full-length cDNAs -
XX
XX Claim 8; SEQ ID 18328; 2537PP + CD ROM; English.
XX
XX The present invention describes primer sets for synthesizing 5602
XX full-length cDNAs defined in the specification. Where a primer set
XX comprises: (a) an oligo-dT primer and an oligonucleotide complementary
XX to the complementary strand of a polynucleotide which comprises one of
XX the 5602 nucleotide sequences defined in the specification, where the
XX oligonucleotide comprises at least 15 nucleotides; or (b) a combination
XX of an oligonucleotide comprising a sequence complementary to the
XX complementary strand of a polynucleotide which comprises a 5'-end
XX sequence and an oligonucleotide comprising a sequence complementary to a
XX polynucleotide which comprises a 3'-end sequence, where the
XX oligonucleotide comprises at least 15 nucleotides and the combination of
XX the 5'-end sequence/3'-end sequence is selected from those defined in
XX the specification. The primer sets can be used in antisense therapy and
XX in gene therapy. The primers are useful for synthesizing polynucleotides,
XX particularly full-length cDNAs. The primers are also useful for the
XX detection and/or diagnosis of the abnormality of the proteins encoded by
XX the full-length cDNAs. The primers allow obtaining of the full-length
XX cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
XX AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to
XX AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632
XX represent oligonucleotides, all of which are used in the exemplification
XX of the present invention.
XX
XX Sequence 366 AA;
SQ

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Query Match 41.1%; Score 199; DB 22; Length 366;
Best Local Similarity 45.6%; Pred. No. 5.2e-18;
Matches 41; Conservative 14; Mismatches 35; Indels 0; Gaps 0;

QY 1 EETLWEMESHRRIVRCICPSRLTPYLRQAKVLCQDDEEVLSPRLTNSMARAGHLTD 60
DB 7 DEECWNLVLEGFRVTLTSVIDPSRITPYLRQCKVLPDDEEQLSDPNLVRKRVGLLD 66
QY 61 LKTRGKGAIAFLSELYKFNPDVYTLVGTG 90
DB 67 ILQRTGKHGYAVFLSELYLPOLYKKVGTG 96

RESULT 15
ABG76060
ID ABG76060 standard; Protein; 366 AA.
AC ABG76060;
XX
XX 09-MAY-2003 (first entry)
DT
XX
XX Caspase recruitment domain containing protein, CARD-10X.
DE
XX CARD; caspase recruitment domain; apoptosis; cell adhesion; inflammation;
XX cytokine receptor signaling; cancer; glioma; carcinoma; adenocarcinoma;
XX CARD-containing polypeptide associated disorder; sarcoma; melanoma;
XX hamatoma; leukemias; lymphoma; keratinocyte hyperplasia; neoplasia;
XX leioid; benign prostatic hypertrophy; inflammatory hyperplasia; fibrosis;
XX reitenois; allergy; arthritis; lupus; Sjogren's syndrome; sepsis;
XX Crohn's disease; ulcerative colitis; graft versus host disease; stroke;
XX abnormal cell death disease; myocardial infarction; heart failure;
XX neurodegenerative disease; Parkinson's disease; Alzheimer's disease; HIV;
XX CARD-10X; caspase activator; caspase inhibitor.
XX
XX Unidentified.
XX
XX Key Location/Qualifiers
XX FH 12..83
XX FT /label= CARD
XX FT /note= "Caspase recruitment domain. Specifically
XX FT /label= Filament domain
XX FT /note= "Specifically claimed in claim 12"
XX
XX Domain 154..297
XX FT /label= Filament domain
XX FT /note= "Specifically claimed in claim 12"
XX
XX US2002164703-A1.
XX
XX 07-NOV-2002.
XX
XX 19-DEC-2001; 2001US-0032159.
XX
XX 21-DEC-2000; 2000US-257457P.
XX
XX (PAWL/) PAWLOWSKI K.
XX PA (RESD/) RESED J C.
XX PA (GODZIK/) GODZIK A.
XX
XX Pawlowski K, Reed JC, Godzik A;
XX
XX WPI; 2003-288137/28.
XX
XX N-PSDB; ABX11432.
XX
XX New isolated CARD-containing nucleic acids, useful for the diagnosis
XX and treatment of disorders with aberrant expression or activity of the
XX CARD-containing polypeptide, such as cancer, stroke, arthritis, heart
XX failure and AIDS -
XX
XX Claim 13; Fig 1; 34pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule encoding a
XX caspase recruitment domain (CARD) containing polypeptide. CARD containing
XX polypeptides are involved in apoptosis (as caspase activators and caspase

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CC inhibitors), cell adhesion, inflammation and cytokine receptor
CC signalling. The methods and compositions of the present invention are
CC useful for the diagnosis and treatment of disorders associated with the
CC aberrant expression or activity of the CARD containing polypeptide such
CC as cancer, glioma, carcinoma, adenocarcinoma, sarcoma, melanoma, keloid,
CC hamartoma, leukaemia, lymphoma, keratinocyte hyperplasia, neoplasia,
CC benign prostatic hypertrophy, inflammatory hyperplasia, fibrosis,
CC restenosis, allergies, inflammatory diseases such as arthritis, lupus,
CC Sjogren's syndrome, Crohn's disease, ulcerative colitis, graft versus
CC host disease, sepsis, abnormal cell death diseases such as stroke,
CC myocardial infarction, heart failure, neurodegenerative diseases like
CC Parkinson's disease and Alzheimer's disease, and HIV infection. The
CC present sequence represents the amino acid sequence of the caspase
CC recruitment domain containing protein, CARD-10X.

XX
SQ Sequence 366 AA;

Query Match 41.1%; Score 199; DB 24; Length 366;
Best Local Similarity 45.6%; Pred. No. 5.2e-18;
Matches 41; Conservative 14; Mismatches 35; Indels 0; Gaps 0;

Qy 1 EETLWEMESHRRIRVRCICPSRLTPYLQAKVLCQLDEEYVLSPPRLTNSAMRAGHLID 60
::||::||::||::||::||::||::||::||::||::||::||::||::||::||
Db 7 DDECMNVLEGRVTLTSVIDPSRITPYLRQCKVLPDDEQVLSDPNLVIRKRVGVLD 66
Qy 61 LKTRGKNGAIAFLSLSLKFHNDVYTLVTG 90
::||::||::||::||::||::||::||::||::||::||::||::||::||::||
Db 67 ILQRTGHRGKYVAFLSLSLGLVYPPOLYKVTG 96

Search completed: February 9, 2004, 17:32:36
Job time : 42 secs

QY 121 GAGGTGCTCAGACCCCGGCTCAACACAGCCGATCGGGCCGGGCACTTGTGAT 180
DB 121 GAGGTGCTCAGACCCCGGCTCAACACAGCCGATCGGGCCGGGCACTTGTGAT 180
QY 181 TTGCTGAAGACTGAGGGAAGAACGGGGCCATCGCTTCTTGAAGAGCTGAAGTTCCAC 240
DB 181 TTGCTGAAGACTGAGGGAAGAACGGGGCCATCGCTTCTTGAAGAGCTGAAGTTCCAC 240
QY 241 AACCTGAGCTGACACCTGCTGACCCGGGCTGCGAG 276
DB 241 AACCTGAGCTGACACCTGCTGACCCGGGCTGCGAG 276

RESULT 2
US-10-032-159a-15

Sequence 15, Application US/10032159A
Publication No. US20020164703A1
GENERAL INFORMATION:
APPLICANT: Pawlowski, Krzysztof
APPLICANT: Reed, John C.
APPLICANT: Godzik, Adam
TITLE OF INVENTION: CARD-DOMAIN CONTAINING POLYPEPTIDES,
FILE REFERENCE: P-LJ 5100
CURRENT APPLICATION NUMBER: US/10/032,159A
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: US 60/257,457
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 417
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(417)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 416, 417
OTHER INFORMATION: n = A,T,C or G
US-10-032-159a-15

Query Match 100.0%; Score 276; DB 14; Length 417;
Best Local Similarity 100.0%; Pred.No. 7,2e-66;
Matches 276; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGGAGATGATGAGAGCCACCGCCACAGATGATGATGATGAT 60
DB 46 GAGGAGACACTGTGGGAGATGATGAGAGCCACCGCCACAGATGATGATGATGAT 105
QY 61 CCCAGCGGCTCAACCCCTACCTGCGGCGAGGCAAGGTGCTGTCAGCTGAGAGAG 120
DB 106 CCCAGCGGCTCAACCCCTACCTGCGGCGAGGCAAGGTGCTGTCAGCTGAGAG 165
QY 121 GAGGTGCTGACAGCCCGGCTCAACACAGCGCCATCGGGCCGGGCACTTGTGAT 180
DB 166 GAGGTGCTGACAGCCCGGCTCAACACAGCGCCATCGGGCCGGGCACTTGTGAT 225
QY 181 TTGCTGAAGACTGAGGGAAGAACGGGGCCATCGCTTCTTGAAGAGCTGAAGTTCCAC 240
DB 226 TTGCTGAAGACTGAGGGAAGAACGGGGCCATCGCTTCTTGAAGAGCTGAAGTTCCAC 285
QY 241 AACCTGAGCTGACACCTGCTGACCCGGGCTGCGAG 276
DB 286 AACCTGAGCTGACACCTGCTGACCCGGGCTGCGAG 321

RESULT 3
US-09-767-215-3
Sequence 3, Application US/09767215
Patent No. US2002081636A1
GENERAL INFORMATION:

APPLICANT: Berlin, John
TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
FILE REFERENCE: 07334-142001
CURRENT APPLICATION NUMBER: US/09/767,215
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 60/181,159
PRIOR FILING DATE: 2000-02-09
NUMBER OF SEQ ID NOS: 10
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 3012
TYPE: DNA
ORGANISM: Homo sapiens
US-09-767-215-3

Query Match 100.0%; Score 276; DB 9; Length 3012;
Best Local Similarity 100.0%; Pred.No. 7,6e-66;
Matches 276; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGGAGATGATGAGAGCCACCGCCACAGATGATGATGATGAT 60
DB 46 GAGGAGACACTGTGGGAGATGATGAGAGCCACCGCCACAGATGATGATGATGAT 105
QY 61 CCCAGCGGCTCAACCCCTACCTGCGGCGAGGCAAGGTGCTGTCAGCTGAGAGAG 120
DB 106 CCCAGCGGCTCAACCCCTACCTGCGGCGAGGCAAGGTGCTGTCAGCTGAGAGAG 165
QY 121 GAGGTGCTGACAGCCCGGCTCAACACAGCGCCATCGGGCCGGGCACTTGTGAT 180
DB 166 GAGGTGCTGACAGCCCGGCTCAACACAGCGCCATCGGGCCGGGCACTTGTGAT 225
QY 181 TTGCTGAAGACTGAGGGAAGAACGGGGCCATCGCTTCTTGAAGAGCTGAAGTTCCAC 240
DB 226 TTGCTGAAGACTGAGGGAAGAACGGGGCCATCGCTTCTTGAAGAGCTGAAGTTCCAC 285
QY 241 AACCTGAGCTGACACCTGCTGACCCGGGCTGCGAG 276
DB 286 AACCTGAGCTGACACCTGCTGACCCGGGCTGCGAG 321

RESULT 4
US-09-767-215-4

Sequence 4, Application US/09767215
Patent No. US2002081636A1
GENERAL INFORMATION:

APPLICANT: Berlin, John
TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
FILE REFERENCE: 07334-142001
CURRENT APPLICATION NUMBER: US/09/767,215
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 60/181,159
PRIOR FILING DATE: 2000-02-09
NUMBER OF SEQ ID NOS: 10
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 3417
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(3417)
US-09-767-215-4

Query Match 100.0%; Score 276; DB 9; Length 3417;
Best Local Similarity 100.0%; Pred.No. 7,6e-66;
Matches 276; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGGAGATGATGAGAGCCACCGCCACAGATGATGATGATGAT 60
DB 46 GAGGAGACACTGTGGGAGATGATGAGAGCCACCGCCACAGATGATGATGATGAT 105

QY 61 CCCAGCCGCTCAACCCCTTACTGCGCCAGGCGAAGTGTGTGCGACGTGACGAGAG 120
DB 106 CCCAGCCGCTCAACCCCTTACTGCGCCAGGCGAAGTGTGTGCGACGTGACGAGAG 165
QY 121 GAGGTGCTGACAGCGCCCGGCTGACCAAGCGGCATGCGGCGCGGCACTTGCTGAT 180
DB 166 GAGGTGCTGACAGCGCCCGGCTGACCAAGCGGCATGCGGCGCGGCACTTGCTGAT 225
QY 181 TTGCTGAAGACTCGAGGGAAGAACGGGGCATGCGCTTCTTGAGAGCTGAAGTTCCAC 240
DB 226 TTGCTGAAGACTCGAGGGAAGAACGGGGCATGCGCTTCTTGAGAGCTGAAGTTCCAC 285
QY 241 AACCTGACGTCTACACCTCTGTCAACCGGCGTGCAG 276
DB 286 AACCTGACGTCTACACCTCTGTCAACCGGCGTGCAG 321

RESULT 5
US-10-104-047-315
; Sequence 315, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HEMIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1 full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; PRIOR FILING DATE: 2002-03-25
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 315:
; LENGTH: 3766
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-104-047-315

Query Match 100.0%; Score 276; DB 12; Length 3766;
Best Local Similarity 100.0%; Pred. No. 7,66-66;
Matches 276; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGAGATGATGAGAGCAACCGGCACAGGATGTACGCTGATCGC 60
DB 237 GAGGAGACACTGTGGAGATGATGAGAGCAACCGGCACAGGATGTACGCTGATCGC 296
QY 61 CCCAGCCGCTCAACCCCTTACTGCGCCAGGCGAAGTGTGTGCGACGTGACGAGAG 120
DB 297 CCCAGCCGCTCAACCCCTTACTGCGCCAGGCGAAGTGTGTGCGACGTGACGAGAG 356
QY 121 GAGGTGCTGACAGCGCCCGGCTGACCAAGCGGCATGCGGCGCGGCACTTGCTGAT 180
DB 357 GAGGTGCTGACAGCGCCCGGCTGACCAAGCGGCATGCGGCGCGGCACTTGCTGAT 416
QY 181 TTGCTGAAGACTCGAGGGAAGAACGGGGCATGCGCTTCTTGAGAGCTGAAGTTCCAC 240
DB 417 TTGCTGAAGACTCGAGGGAAGAACGGGGCATGCGCTTCTTGAGAGCTGAAGTTCCAC 476
QY 241 AACCTGACGTCTACACCTCTGTCAACCGGCGTGCAG 276
DB 477 AACCTGACGTCTACACCTCTGTCAACCGGCGTGCAG 512

RESULT 6
US-09-767-215-1
; Sequence 1, Application US/09767215
; Patent No. US20020081636A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
; FILE REFERENCE: 0734-142001
; CURRENT APPLICATION NUMBER: US/09/767,215
; CURRENT FILING DATE: 2001-01-22

PRIOR APPLICATION NUMBER: 60/181,159
; PRIOR FILING DATE: 2000-02-09
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 3931
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (207)...(3218)
US-09-767-215-1

Query Match 100.0%; Score 276; DB 9; Length 3931;
Best Local Similarity 100.0%; Pred. No. 7,76-66;
Matches 276; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGAGATGATGAGAGCAACCGGCACAGGATGTACGCTGATCGC 60
DB 252 GAGGAGACACTGTGGAGATGATGAGAGCAACCGGCACAGGATGTACGCTGATCGC 311
QY 61 CCCAGCCGCTCAACCCCTTACTGCGCCAGGCGAAGTGTGTGCGACGTGACGAGAG 120
DB 312 CCCAGCCGCTCAACCCCTTACTGCGCCAGGCGAAGTGTGTGCGACGTGACGAGAG 371
QY 121 GAGGTGCTGACAGCGCCCGGCTGACCAAGCGGCATGCGGCGCGGCACTTGCTGAT 180
DB 372 GAGGTGCTGACAGCGCCCGGCTGACCAAGCGGCATGCGGCGCGGCACTTGCTGAT 431
QY 181 TTGCTGAAGACTCGAGGGAAGAACGGGGCATGCGCTTCTTGAGAGCTGAAGTTCCAC 240
DB 432 TTGCTGAAGACTCGAGGGAAGAACGGGGCATGCGCTTCTTGAGAGCTGAAGTTCCAC 491
QY 241 AACCTGACGTCTACACCTCTGTCAACCGGCGTGCAG 276
DB 492 AACCTGACGTCTACACCTCTGTCAACCGGCGTGCAG 527

RESULT 7
US-09-798-412-9
; Sequence 9, Application US/09798412
; Publication No. US20030109428A1
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
; FILE REFERENCE: 0734-327001
; CURRENT APPLICATION NUMBER: US/09/798,412
; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: US 09/728,260
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US 09/685,791
; PRIOR FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/513,904
; PRIOR FILING DATE: 2000-02-25
; PRIOR APPLICATION NUMBER: US 09/507,533
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: US 60/166,780
; PRIOR FILING DATE: 1999-12-03
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 3096
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-798-412-9

Query Match 41.1%; Score 113.4; DB 11; Length 3096;
Best Local Similarity 63.3%; Pred. No. 1,56-21;
Matches 174; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGAGATGATGAGAGCAACCGGCACAGGATGTACGCTGATCGC 60

Db 70 GAGAGCCGCTGTGGAGCGAATCGAGGGGCTCCGGATCGCTGGCTGCGCCCTGAAC 129
 QY 61 CCCAGCCGCTCAACCCCTTACCTGCGCCAGAGGCTGTGTGCCAGCTGACGAGAG 120
 Db 130 CCGGCCAAGCTCAAGCGGTATCTGCGCCAGTCCGGGTATCATGACGAGGAGCGAGAG 189
 QY 121 GAGGTGTGACAGCCCGGCTCACCACAGCGCCATGCGGGGCACTTGTCTGAT 180
 Db 190 GAGGTGTGAGCACTTACCGCTTCCGCTGCGCGTCAACCGCACCGGGCGCTGATGAG 249
 QY 181 TTGCTGAAGACTGAGGAGAGAAAGCGGGCCATGCGCTTCTGAGAGCCTGAAGTTCCAC 240
 Db 250 ATCTTGCGCTGCGCTGAGGAGAGGAGGCTATGAGGCTTCTGAGAGCCTGAGTTCTAC 309
 QY 241 AACCTGACGTCTACACCTGCTGTCACCGGGCTGCA 275
 Db 310 TACCCGAAACATTCAAGCTGCTCAAGGGCCAGGA 344

RESULT 8

US-10-325-917-9
 ; Sequence 9, Application US/10325917
 ; Publication No. US20030113787A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bertin, John
 ; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
 ; TITLE OF INVENTION: PROTEIN FAMILY AND USES THEREOF
 ; FILE REFERENCE: 07334-327001
 ; CURRENT APPLICATION NUMBER: US/10/325,917
 ; CURRENT FILING DATE: 2002-12-20
 ; PRIOR APPLICATION NUMBER: US/09/798,412
 ; PRIOR FILING DATE: 2001-03-02
 ; PRIOR APPLICATION NUMBER: US 09/728,260
 ; PRIOR FILING DATE: 2000-12-01
 ; PRIOR APPLICATION NUMBER: US 09/685,791
 ; PRIOR FILING DATE: 2000-10-10
 ; PRIOR APPLICATION NUMBER: US 09/513,904
 ; PRIOR FILING DATE: 2000-02-25
 ; PRIOR APPLICATION NUMBER: US 09/507,533
 ; PRIOR FILING DATE: 2000-02-18
 ; PRIOR APPLICATION NUMBER: US 60/168,780
 ; PRIOR FILING DATE: 1999-12-03
 ; NUMBER OF SEQ ID NOS: 19
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 9
 ; LENGTH: 3096
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-325-917-9

Query Match 41.1%; Score 113.4; DB 15; Length 3096;
 Best Local Similarity 63.3%; Pred. No. 1.5e-21;
 Matches 174; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 1 GAGAGACACTGTGGAGATGATGAGAGCCACCGCCACAGATCTGACCTGATTCG 60
 Db 70 GAGAGACGCTGTGGAGCGAATGAGGGGCTCCGGATCGGCTGCTCCGCTGAAC 129
 QY 61 CCCAGCCGCTCAACCCCTTACCTGCGCCAGAGGCTGTGTGCCAGCTGACGAGAG 120
 Db 130 CCGGCCAAGCTCAAGCGGTATCTGCGCCAGTCCGGGTATCATGACGAGGAGAG 189
 QY 121 GAGGTGTGACAGCCCGGCTCACCACAGCGCCATGCGGGGCACTTGTCTGAT 180
 Db 190 GAGGTGTGAGCACTTACCGCTTCCGCTGCGCGTCAACCGCACCGGGCGCTGATGAG 249
 QY 181 TTGCTGAAGACTGAGGAGAGAAAGCGGGCCATGCGCTTCTGAGAGCCTGAAGTTCCAC 240
 Db 250 ATCTTGCGCTGCGCTGAGGAGAGGAGGCTATGAGGCTTCTGAGAGCCTGAGTTCTAC 309
 QY 241 AACCTGACGTCTACACCTGCTGTCACCGGGCTGCA 275
 Db 310 TACCCGAAACATTCAAGCTGCTCAAGGGCCAGGA 344

RESULT 9

US-09-798-412-7
 ; Sequence 7, Application US/09798412
 ; Publication No. US20030109428A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bertin, John
 ; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
 ; TITLE OF INVENTION: PROTEIN FAMILY AND USES THEREOF
 ; FILE REFERENCE: 07334-327001
 ; CURRENT APPLICATION NUMBER: US/09/798,412
 ; CURRENT FILING DATE: 2001-03-02
 ; PRIOR APPLICATION NUMBER: US 09/728,260
 ; PRIOR FILING DATE: 2000-12-01
 ; PRIOR APPLICATION NUMBER: US 09/685,791
 ; PRIOR FILING DATE: 2000-10-10
 ; PRIOR APPLICATION NUMBER: US 09/513,904
 ; PRIOR FILING DATE: 2000-02-25
 ; PRIOR APPLICATION NUMBER: US 09/507,533
 ; PRIOR FILING DATE: 2000-02-18
 ; PRIOR APPLICATION NUMBER: US 60/168,780
 ; PRIOR FILING DATE: 1999-12-03
 ; NUMBER OF SEQ ID NOS: 19
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 7
 ; LENGTH: 3949
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (41)...(3136)
 ; US-09-798-412-7

Query Match 41.1%; Score 113.4; DB 11; Length 3949;
 Best Local Similarity 63.3%; Pred. No. 1.6e-21;
 Matches 174; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 1 GAGAGACACTGTGGAGATGATGAGAGCCACCGCCACAGATCTGATTCGCTGATTCG 60
 Db 110 GAGAGACGCTGTGGAGCGAATGAGGGGCTCCGGATCGGCTGCTGCGCCCTGAAC 169
 QY 61 CCCAGCCGCTCAACCCCTTACCTGCGCCAGAGGCTGTGTGCCAGCTGACGAGAG 120
 Db 170 CCGGCCAAGCTCAAGCGGTATCTGCGCCAGTCCGGGTATCATGACGAGGAGAG 229
 QY 121 GAGGTGTGACAGCCCGGCTCACCACAGCGCCATGCGGGGCACTTGTCTGAT 180
 Db 230 GAGGTGTGAGCACTTACCGCTTCCGCTGCGCGTCAACCGCACCGGGCGCTGATGAG 289
 QY 181 TTGCTGAAGACTGAGGAGAGAAAGCGGGCCATGCGCTTCTGAGAGCCTGAAGTTCCAC 240
 Db 290 ATCTTGCGCTGCGCTGAGGAGAGGAGGCTATGAGGCTTCTGAGAGCCTGAGTTCTAC 349
 QY 241 AACCTGACGTCTACACCTGCTGTCACCGGGCTGCA 275
 Db 350 TACCCGAAACATTCAAGCTGCTCAAGGGCCAGGA 384

RESULT 10

US-10-325-917-7
 ; Sequence 7, Application US/10325917
 ; Publication No. US20030113787A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bertin, John
 ; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
 ; TITLE OF INVENTION: PROTEIN FAMILY AND USES THEREOF
 ; FILE REFERENCE: 07334-327001
 ; CURRENT APPLICATION NUMBER: US/10/325,917
 ; CURRENT FILING DATE: 2002-12-20
 ; PRIOR APPLICATION NUMBER: US/09/798,412
 ; PRIOR FILING DATE: 2001-03-02
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 7
 ; LENGTH: 3949
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 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (41)...(3136)
 ; US-09-798-412-7


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Db 421 CTTGCCAAGCTCAGCCCTTACTGCGCTCAATGTAAAGTCAITGATGACGAGATGAAGAT 480
QY 121 GAGGTGCTGACAGCCCGCGCTCACCAACAGCGCCATGCGGCGCGGCACTTGCTGGAT 180
Db 481 GAAGTGTATATGCCCTTATGTGCCATCCAAAGATCAACGAGCAGGCGGCTGTGGAC 540
QY 181 TTGCTGAAGACTCGAGGGAAGAACGGGCGCATGCGCTTCTTGAAGAGCTGAAGTCCAC 240
Db 541 ATTCTACATACCAAGGGGCTATGTGTCTTCTTGGAGAGCCTAGAAATTTTAT 600
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FN      US2002164703-A1.
XX
XX      07-NOV-2002.
XX
XX      19-DEC-2001; 2001US-0032159.
XX
XX      21-DEC-2000; 2000US-257457P.
XX
XX      (PAML/) PAWLOWSKI K.
XX      (REED/) REED J C.
XX      (GODZIK/) GODZIK A.
XX
XX      Pawlowski K, Reed JC, Godzik A;
XX
XX      WPI: 2003-266137/28.
XX      N-PSDE; ABX11431.
XX
XX      New isolated CARD-containing nucleic acids, useful for the diagnosis
XX      and treatment of disorders with aberrant expression or activity of the
XX      CARD-containing polypeptide, such as cancer, stroke, arthritis, heart
XX      failure and AIDS
XX
XX      Claim 11; Fig 3; 34pp; English.
XX
XX      The invention relates to an isolated nucleic acid molecule encoding a
XX      caspase recruitment domain (CARD) containing polypeptide. CARD containing
XX      polypeptides are involved in apoptosis (as caspase activators and caspase
XX      inhibitors), cell adhesion, inflammation and cytokine receptor
XX      signalling. The methods and compositions of the present invention are
XX      useful for the diagnosis and treatment of disorders associated with the
XX      aberrant expression or activity of the CARD containing polypeptide such
XX      as cancer, glioma, carcinoma, adenocarcinoma, sarcoma, melanoma, keloid,
XX      hamartoma, leukemia, lymphoma, keratinocyte hyperplasia, neoplasia,
XX      benign prostatic hypertrophy, inflammatory hyperplasia, fibrosis,
XX      restenosis, allergies, inflammatory diseases such as arthritis, lupus,
XX      Sjogren's syndrome, Crohn's disease, ulcerative colitis, graft versus
XX      host disease, sepsis, abnormal cell death diseases such as stroke,
XX      myocardial infarction, heart failure, neurodegenerative diseases like
XX      Parkinson's disease and Alzheimer's disease, and HIV infection. The
XX      present sequence represents the amino acid sequence of the human
XX      caspase recruitment domain containing protein, CARD-12X.
XX
XX      Sequence 139 AA;
XX
XX      Query Match 100.0%; Score 484; DB 24; Length 139;
XX      Best Local Similarity 100.0%; Pred. No. 3,2e-57;
XX      Matches 92; Conservative 0; Mismatches 0; Indels 0; Gaps 0
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XX      QY      1 EETLWEMESHRRIRIVCTCPSELTPYLRQAVLCOLDEEVLHSPVITNSAMPAGHLD 60
XX      DB      16 EETLWEMESHRRIRIVCTCPSELTPYLRQAVLCOLDEEVLHSPVITNSAMPAGHLD 75
XX      QY      61 LKTRKNGAIAFLSLKFNPNVYTLVGLQ 92
XX      DB      76 LKTRKNGAIAFLSLKFNPNVYTLVGLQ 107
XX
XX      RESULT 2
XX      AAE07164
XX      AAE07164;
XX      06-NOV-2001 (first entry)
XX
XX      Human caspase recruitment domain-14 (CARD-14).
XX
XX      Human, caspase recruitment domain-14; CARD-14; chromosome 17;
XX      nuclear factor-kappa B; NF-kB; cell growth; cell death; cancer; therapy;
XX      autoimmune disorder; systemic lupus erythematosus; neurological disorder;
XX      Alzheimer's disease; Parkinson's disease; inflammatory disorder; anaemia;
XX      haematological disorder; myelodysplastic syndrome; myocardial infarction;
XX      stroke.

```

Accession	Protein Name	Location/Qualifiers
KT	cell signalling disorder; cytostatic; immunosuppressive; nocrotropi	
KW	neuroprotective; antiviral; antibacterial.	
OS	Homo sapiens.	
XX	Key	Location/Qualifiers
FT	Modified-site	6..9 /note="CAMP- and GMP-dependent protein kinase phosphorylation site"
FT	Domain	10..116 /label=CARD_domain
FT	Modified-site	12..15 /note="Casein kinase II phosphorylation site"
FT	Modified-site	18..21 /note="Casein kinase II phosphorylation site"
FT	Modified-site	25..27 /note="Protein kinase C phosphorylation site"
FT	Modified-site	60..62 /note="Protein kinase C phosphorylation site"
FT	Modified-site	91..93 /note="Protein kinase C phosphorylation site"
FT	Modified-site	114..117 /note="N-glycosylation site"
FT	Modified-site	117..122 /note="N-myristoylation site"
FT	Modified-site	121..123 /note="Protein kinase C phosphorylation site"
FT	Domain	126..420 /label=Coiled_Coil_domain
FT	Modified-site	130..135 /note="N-myristoylation site"
FT	Modified-site	134..137 /note="Casein kinase II phosphorylation site"
FT	Modified-site	161..166 /note="N-myristoylation site"
FT	Modified-site	165..168 /note="Casein kinase II phosphorylation site"
FT	Modified-site	220..227 /note="Tyrosine kinase phosphorylation site"
FT	Modified-site	221..224 /note="Casein kinase II phosphorylation site"
FT	Domain	239..325 /label=k-Box_domain
FT	Modified-site	240..243 /note="Casein kinase II phosphorylation site"
FT	Modified-site	250..252 /note="Protein kinase C phosphorylation site"
FT	Modified-site	253..256 /note="Casein kinase II phosphorylation site"
FT	Modified-site	259..262 /note="Casein kinase II phosphorylation site"
FT	Modified-site	280..283 /note="Casein kinase II phosphorylation site"
FT	Modified-site	290..293 /note="Casein kinase II phosphorylation site"
FT	Modified-site	297..300 /note="Casein kinase II phosphorylation site"
FT	Modified-site	307..309 /note="Protein kinase C phosphorylation site"
FT	Modified-site	307..310 /note="Casein kinase II phosphorylation site"
FT	Modified-site	353..365 /note="Tyrosine kinase phosphorylation site"
FT	Modified-site	366..368 /note="Protein kinase C phosphorylation site"
FT	Modified-site	366..369 /note="Casein kinase II phosphorylation site"
FT	Modified-site	378..381 /note="Casein kinase II phosphorylation site"
FT	Modified-site	384..386 /note="Protein kinase C phosphorylation site"
FT	Region	385..406

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 9, 2004, 15:58:23 ; Search time 193 Seconds
(without alignments)
3860.336 Million cell updates/sec

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Sequence: 1 gagagacacacgtcgtggagat.....ccctgcaccggcgtcag 276

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Gapop 10.0, Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	276	100.0	417	25	ABX11431 Human caspase recr
2	276	100.0	3417	22	AAD13448 Human caspase recr
3	276	100.0	3931	22	AAD13447 Human caspase recr
4	113.4	41.1	3948	24	AAS98203 DNA encoding plako
5	113.4	41.1	3949	22	AAS05388 Human caspase recr
6	113.4	41.1	3949	24	ABA00333 Human CARD-10 CDNA
7	100.4	36.4	3744	25	ABX11430 Human caspase recr
8	100.4	36.4	4275	22	AAS05389 Human caspase recr

9	100.4	36.4	4276	24	ABA00334 Human CARD-11 CDNA
C 10	88	31.9	524	21	AACT5276 Human ORF ORF831
C 11	88	31.9	524	24	AAE26534 Human ORF polynuc
C 12	88	31.9	765	22	AAH08620 Human CDNA clone (
13	88	31.9	2098	22	AAS05387 Human caspase recr
14	88	31.9	2098	24	ABA00332 Human CARD-9 CDNA
15	88	31.9	2176	22	AAH18321 Human CDNA sequenc
16	88	31.9	2176	25	ABX11432 DNA encoding caspa
17	79.6	28.8	1879	22	AAS05386 Rat caspase recr
18	79.6	28.8	1879	24	ABA00331 Rat CARD-9 CDNA
19	66.8	24.2	1141	25	ABX11449 Human CARD-12X exp
20	50.2	18.2	281	25	ABX11433 Human CARD-10X exp
21	43.4	15.7	5535	23	ABE03813 Drosophila melanog
22	42.2	15.3	10893	23	ABE03812 Drosophila melanog
23	42.2	15.3	2934	22	AAH10330 Human haematopoiet
24	41.8	15.1	2277	19	AAV13836 Homo sapiens mamma
25	41.8	15.1	2277	19	AAV05372 Human telomerase p
26	41.6	15.1	1562	24	ABG72815 Human MDR1 encodin
27	41.6	15.1	1779	22	AAH16344 Human sbgtransg79a
28	41.6	15.1	1811	24	ABG86161 Novel human gene
29	41.6	15.1	1811	24	ABK48387 DNA encoding human
30	41.6	15.1	1860	24	ABK92037 Human encoding novel
31	41.6	15.1	2222	24	ABK62081 Human CDNA encodin
32	41.6	15.1	2300	24	AAH41275 Human LP polypepti
33	41.6	15.1	2338	25	ABG77432 Human CGSD CDNA 68
34	41.2	14.9	309	24	ABE774221 Corn tassal-deri
C 35	41	14.9	1389	21	AAE63862 Human foetal liver
C 36	41	14.9	1545	21	AAE63861 Human foetal liver
C 37	41	14.9	2860	24	ABT06279 Human NOVA1 coding
38	41	14.9	2860	24	ABT06280 Human NOVA1 coding
39	41	14.9	3884	22	AAE21316 Human CDNA sequenc
40	41	14.9	3884	25	ACA03675 Human CDNA encoding huma
41	41	14.9	3884	25	ACA04096 Human CDNA encodin
42	41	14.9	3884	25	ABX89213 DNA encoding novel
43	40.6	14.7	981	24	ABQ39868 Oligonucleotide fo
C 44	40.6	14.7	981	24	ABQ39869 Oligonucleotide fo
C 45	40.6	14.7	1359	21	AAE56705 Human transmembran

ALIGNMENTS

RESULT 1	ABX11431	standard; CDNA; 417 BP.
ID	ABX11431	standard; CDNA; 417 BP.
XX	ABX11431	
AC	ABX11431	
XX	09-MAY-2003	(first entry)
XX	09-MAY-2003	(first entry)
DE	Human caspase recruitment domain containing protein, CARD-12X, CDNA.	
XX	CARD, caspase recruitment domain; apoptosis; cell adhesion; inflammation; cytokine receptor signalling; cancer; glioma; carcinoma; adenocarcinoma; CAD-containing polypeptide associated disorder; sarcoma; melanoma; ss; hamartoma; leukemias; lymphoma; keratinocyte hyperplasia; neoplasia; keloid; benign prostatic hypertrophy; inflammatory hyperplasia; fibrosis; reterositis; allergy; arthritis; lupus; Sjogren's syndrome; sepsis; gene; Crohn's disease; ulcerative colitis; graft versus host disease; stroke; abnormal cell death disease; myocardial infarction; heart failure; human; neurodegenerative disease; Parkinson's disease; Alzheimer's disease; HIV; CARD-12X; caspase activator; caspase inhibitor.	
XX	Homo sapiens.	
XX	OS	
XX	Key	Location/Qualifiers
XX	Key	1..417
XX	CDS	/*tag= a
XX	FT	/product= "CARD-12X"
XX	FT	/partial
XX	FT	/transl_except= (pos:415..417,aa:Xaa)
XX	FT	/note= "No stop codon given. Xaa = unknown"
XX	FT	misc_feature 46..321

Matches 276; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GAGAGACACTGTGGAGATGATGAGAGAGCCACCGCCACAGATGCTGACGCTGCTGCG 60
 Db 252 GAGAGACACTGTGGAGATGATGAGAGAGCCACCGCCACAGATGCTGACGCTGCTGCG 311
 QY 61 CCCAGCCGCTCAACCCCTTACCTGCGCCAGCCCAAGTCTGTCAGCTGAGCAGAGAG 120
 Db 312 CCCAGCCGCTCAACCCCTTACCTGCGCCAGCCCAAGTCTGTCAGCTGAGCAGAGAG 371
 QY 121 GAGGTCTGCAACAGCCCGGCTCAACCAACAGCGCCATGCGGGCGGCACTTGTGAT 180
 Db 372 GAGGTCTGCAACAGCCCGGCTCAACCAACAGCGCCATGCGGGCGGCACTTGTGAT 431
 QY 181 TTGCTGAAGACTGAGGAGAGAAACGGGGCATGCGCTTCTGGAAGCTGAAGTTCCAC 240
 Db 432 TTGCTGAAGACTGAGGAGAGAAACGGGGCATGCGCTTCTGGAAGCTGAAGTTCCAC 491
 QY 241 AACCTGACGCTTACACCTTGTCAACCGGGCTGCAG 276
 Db 492 AACCTGACGCTTACACCTTGTCAACCGGGCTGCAG 527

RESULT 4

AAS98203 standard; cDNA; 3948 BP.

AAS98203;

12-MAR-2002 (first entry)

DE DNA encoding plakoglobin interacting protein #3.

XX Human; plakoglobin; cytostatic; osteopathic; dermatological; cardiant;
 KW plakoglobin related disease; skin carcinoma; acantholytic disease;
 KW basal cell carcinoma; squamous cell carcinoma; Naxos disease; PCR primer;
 KW extramammary Paget's disease; heart disease; skin blistering;
 KW subcorneal acantholysis; Grover's disease; Hailey-Hailey's disease;
 KW Darier's disease; ectodermal dysplasia; skin fragility syndrome; ss.

OS Homo sapiens.

XX WO200185933-A2.

PD 15-NOV-2001.

XX 02-MAY-2001; 2001WO-EP04872.

XX 09-MAY-2000; 2000EP-0201668.

XX (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.

PI Van Roy F, Bonne S, Vanlandschoot A;

XX WPI; 2002-062246/08.

DR P-PSDB; AAU73247.

PT New polypeptide, useful for treating skin carcinoma or acantholytic
 PT disease such as Grover's and Darier's disease, comprises a protein
 PT interacting with human plakoglobin and involved in transduction of
 PT plakoglobin related signal to nucleus -

PS Claim 7; Figure 3; 98pp; English.

CC The invention relates to an isolated plakoglobin interacting polypeptide
 CC (I). (I) is useful as a medicament and in the manufacture of a
 CC medicament for treating plakoglobin related diseases, such as skin
 CC carcinoma or an acantholytic disease, and to screen compounds that
 CC interfere with the interaction of the polypeptide with plakoglobin
 CC The plakoglobin related diseases include basal cell carcinoma, squamous
 CC cell carcinoma, extramammary Paget's disease, Naxos disease, heart
 CC diseases, skin blistering and acantholytic diseases such as subcorneal
 CC acantholysis, Grover's disease, Hailey-Hailey's disease or Darier's

CC disease, and ectodermal dysplasia/skin fragility syndrome. AAS98201-
 CC AAS98288 represent novel human plakoglobin interacting protein
 CC coding sequences and PCR primers of the invention.

SO Sequence 3948 BP; 717 A; 1218 C; 1327 G; 686 T; 0 other;

Query Match 41.1%; Score 113.4; DB 24; Length 3948;
 Best Local Similarity 63.3%; Pred. No. 1.6e-15;
 Matches 174; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 1 GAGAGACACTGTGGAGATGATGAGAGAGCCACCGCCACAGATGCTGACGCTGCTGCG 60
 Db 114 GAGAGACAGCTGTGGAGAGAAACGGGGCATGCGCTTCTGGAAGCTGAAGTTCCAC 173
 QY 61 CCCAGCCGCTCAACCCCTTACCTGCGCCAGCCCAAGTCTGTCAGCTGAGCAGAGAG 120
 Db 174 CCCAGCCGCTCAACCCCTTACCTGCGCCAGCCCAAGTCTGTCAGCTGAGCAGAGAG 233
 QY 121 GAGGTCTGCAACAGCCCGGCTCAACCAACAGCGCCATGCGGGCGGCACTTGTGAT 180
 Db 234 GAGGTCTGCAACAGCCCGGCTCAACCAACAGCGCCATGCGGGCGGCACTTGTGAT 233
 QY 181 TTGCTGAAGACTGAGGAGAGAAACGGGGCATGCGCTTCTGGAAGCTGAAGTTCCAC 240
 Db 294 ATCTTGCGCTGCGGTGAGAGAGAGGAGGCTATGAGAGCCCTTCTGGAAGCCCTGAGTTCTAC 353
 QY 241 AACCTGACGCTTACACCTTGTCAACCGGGCTGCAG 275
 Db 354 TACCCGAGACATTACAGCTGCTCACCGGGCCAGGA 388

RESULT 5

AAS05388 standard; cDNA; 3949 BP.

XX AAS05388;

DT 12-SEP-2001 (first entry)

DE Human caspase recruitment domain, CARD-10 cDNA sequence.

XX Human; caspase recruitment domain; CARD-10; Bcl-10; NF-kappaB;
 KW apoptosis; hyperproliferative disorder; autoimmune; neurological;
 KW inflammatory disorder; viral infection; stress-related response; ss.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 41..3139

FT /tag= a

FT /product= "CARD-10"

XX WO200140468-A2.

PD 07-JUN-2001.

XX 01-DEC-2000; 2000WO-US32716.

XX 03-DEC-1999; 99US-0168780.

XX 18-FEB-2000; 2000US-0507533.

XX 25-FEB-2000; 2000US-0513904.

XX 10-OCT-2000; 2000US-0685791.

XX (MILL-) MILLENNITUM PHARM INC.

PI Bertin J;

XX WPI; 2001-367809/38.

DR P-PSDB; AAU01206.

PT Novel caspase recruitment domain (CARD) proteins, CARD-9, CARD-10,
 PT CARD-11, useful as targets for therapy, as immunogens, and in screening

PT and detection assays -

PS Claim 2; Fig 10A-10C; 145pp; English.

XX The present sequence encoding for novel human caspase recruitment
CC domain, CARD-10 is isolated from a human skin cDNA library.
CC Also described are novel human sequences for CARD-9 and CARD-11
CC (AAU01205, AAU01207) and rat CARD-9 (AAU01204). CARD-10 and
CC CARD-11 interact with Bcl-10 which is thought to activate nuclear factor
CC (NF)-kappaB and apoptosis. The sequences of the invention can be used for
CC treating a disorder associated with abnormal levels of apoptosis by
CC modulating the expression or activity of CARD-9, CARD-10, or CARD-11.
CC They can be used for the treatment of hyperproliferative disorders
CC (e.g. cancer), autoimmune disorders (e.g. systemic lupus erythematosus),
CC neurological disorders (e.g. Alzheimer's disease), inflammatory disorders
CC (e.g. Crohn's disease), and viral infection (e.g. HIV). The CARD
CC polypeptide, polynucleotide and an antibody which selectively binds to
CC CARD can be used in screening and detection assays (e.g. chromosomal
CC mapping, tissue typing), predictive medicine (prognostic assays),
CC monitoring clinical trials, and therapy (treatment and prophylaxis). The
CC CARD polypeptide may be used to screen for drugs that bind to and/or
CC modulate it. CARD sequences are potential targets for regulating and
CC inflammation, cancer, NF-kappaB signaling, stress-related response and
CC apoptosis in human disease. A host cell containing a polynucleotide
CC encoding CARD can be used to create transgenic animals.

XX Sequence 3949 BP; 724 A; 1222 C; 1319 G; 684 T; 0 other;

SO Query Match 41.1%; Score 113.4; DB 22; Length 3949;

Best Local Similarity 63.3%; Pred. No. 1.6e-15;

Matches 174; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGAGATGATGAGAGCCACCGCCACAGATCTGATCTGC 60

DB 110 GAGGACGGCTGTGGAGAGATGAGAGCGCTCCGGCATCGGCTCGGCCCTTAAAC 169

QY 61 CCCAGCGCCTCACCCCTACCTGCGCCAGGCGCATGCTGCTCCAGCTGAGAGAG 120

DB 170 CCGGCCAAGCTCAGCCCTATCTGTGGCCAGTCCGGGTGATGACGAGAGAGAG 229

QY 121 GAGGTGCTGACAGCCCGGCTCACCAACAGCCCAATGCGGCGCGGCACTTGTGAT 180

DB 230 GAGGTGCTGACAGCTACCTACCTGCTCCGCGCTCAACCGCAACCGGCGCTGATGAC 289

QY 181 TTGTGAAGACTCGAGGAGAGAGAGCGGCGCATGCTTCTGAGAGCTGAACTTCAC 240

DB 290 ATCTGGCGCTCGCGGAGAGAGGCGCTATGAGGCTTCTGGAAGCCCTGAGTTCTAC 349

QY 241 AACCTGACGTCTACACCTTGTGATGACCGGGCTGCA 275

DB 350 TACCCGGAACACTTCACGCTGCTCACGGGCGCAGGA 384

RESULT 6

ABAO0333 standard; cDNA; 3949 BP.

AC ABA00333;

DT 09-DEC-2002 (first entry)

DE Human CARD-10 cDNA.

XX Gene; rat; human; caspase recruitment domain; CARD-9; CARD-10;
XX CARD-11; apoptosis; inflammation; cell growth; cell death;
XX lymphocyte activation; cancer; melanoma; autoimmune disease;
XX arthritis; neurological disorder; Alzheimer's disease; ss.

OS Homo sapiens.

FX Key Location/Qualifiers

FT CDS 41..313
FT /*tag= a

FT /product= "CARD-10"

PN WO200270652-A2.

PD 12-SEP-2002.

PF 28-FEB-2002; 2002WO-US06147.

PR 02-MAR-2001; 2001US-0798412.

PA (MILL-) MILLENNIUM PHARM INC.

PT Bertin J;

DR WPI; 2002-698749/75.

DR P-PDSB; AAG79554.

PT CARD-9, CARD-10 or CARD-11 polypeptides and polynucleotides, useful for
PT treating disorders associated with inappropriate apoptosis or

PT lymphocyte activation, e.g. cancer

PS Claim 5; Fig 10; 151pp; English.

XX This sequence encodes human caspase recruitment domain (CARD)-10.
CC CARD proteins play roles in apoptotic and inflammatory signalling
CC pathways. CARD-9, -10 and -11 participate in the network of
CC interactions that modulate caspase activity. They are thought to be
CC useful as modulating agents for regulating a variety of cellular
CC processes including cell growth and cell death. CARD proteins and
CC nucleic acids are useful for treating a disorder associated with
CC inappropriate apoptosis or lymphocyte activation or for diagnosing
CC subjects having or that are at risk of developing a disorder associated
CC with aberrant CARD-9, CARD-10 or CARD-11 expression or activity, such
CC as cancer e.g. melanoma, autoimmune disorders e.g. arthritis, or
CC neurological disorders e.g. Alzheimer's disease.

XX Sequence 3949 BP; 724 A; 1222 C; 1319 G; 684 T; 0 other;

SO Query Match 41.1%; Score 113.4; DB 24; Length 3949;

Best Local Similarity 63.3%; Pred. No. 1.6e-15;

Matches 174; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 1 GAGGAGACACTGTGGAGATGATGAGAGCCACCGCCACAGATGATGACCTGATCTGC 60

DB 110 GAGGAGCGCTGTGGAGAGATGAGAGCGCTCCGGCATCGGCTCGGCCCTTAAAC 169

QY 61 CCCAGCGCCTCACCCCTACCTGCGCCAGGCGCATGCTGCTCCAGCTGAGAGAGAG 120

DB 170 CCGGCCAAGCTCAGCCCTATCTGTGGCCAGTCCGGGTGATGACGAGAGAGAG 229

QY 121 GAGGTGCTGACAGCCCGGCTCACCAACAGCCCAATGCGGCGCGGCACTTGTGAT 180

DB 230 GAGGTGCTGACAGCTACCTACCTGCTCCGCGCTCAACCGCAACCGGCGCTGATGAC 289

QY 181 TTGTGAAGACTCGAGGAGAGAGAGCGGCGCATGCTTCTGAGAGCTGAACTTCAC 240

DB 290 ATCTGGCGCTCGCGGAGAGAGGCGCTATGAGGCTTCTGGAAGCCCTGAGTTCTAC 349

QY 241 AACCTGACGTCTACACCTTGTGATGACCGGGCTGCA 275

DB 350 TACCCGGAACACTTCACGCTGCTCACGGGCGCAGGA 384

RESULT 7

ABX11430 standard; cDNA; 3744 BP.

AC ABX11430;

DT 09-MAY-2003 (first entry)

DE Human caspase recruitment domain containing protein, CARD-11X, cDNA.

neurodegenerative disorder; osteoarthritis; graft vs host disease;
 cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 cholesterol ester storage; systemic lupus erythematosus; infection;
 severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 bone damage; cartilage damage; antiinflammatory disease; coagulation;
 thrombosis; contraceptive; ss.

Home sapiens.

WO200058473-A2.

05-OCT-2000.

31-MAR-2000; 2000WO-US08621.

31-MAR-1999; 99US-0127607.

02-APR-1999; 99US-0127636.

05-APR-1999; 99US-0127728.

30-MAR-2000; 2000US-0540763.

(CURA-) CURAGEN CORP.

Shinkets RA, Leach M;
 MPI; 2000-602362/57.
 P-PSDB; AAB41067.

Novel nucleic acids and peptides derived from open reading frame X,
 useful for treating e.g. cancers, proliferative disorders,
 neurodegenerative disorders and cardiovascular disease -

Claim 5; Page 1326; 5507tp; English.

AAC74446 to AAC7606 encode the proteins given in AAB40237 to AAB43397,
 which represent the human ORFX open reading frames 1 to 3161. The ORFX
 sequences have activities such as: cytostatic; hepatotropic; vulnary;
 antiproliferative; antiparkinsonian; neuroprotective;
 osteoprotective; anticonvulsant; antiarthritic; immunosuppressive;
 immunostimulant; cardiac; thrombolytic; coagulant; vasorelaxant;
 antidiabetic; hypotensive; dermatological; immunosuppressive;
 antiinflammatory; antibacterial; antiviral; antifungal; antithrombotic;
 antihypertensive; antianemic. The sequences can be used for determining
 the presence of or predisposition to, or preventing or treating
 pathological conditions associated with an ORFX-associated disorder. The
 nucleic acids can be used to express ORFX proteins in gene therapy
 vectors. The proteins and nucleic acids may be used to treat cancers,
 proliferative disorders, neurodegenerative disorders, osteoarthritis,
 graft vs host disease, cardiovascular disease, diabetes mellitus,
 hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
 erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
 bacterial or fungal infection, malaria, autoimmune disorders, asthma,
 allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,
 nocturnal haemoglobinuria, antiinflammatory disease; to enhance
 coagulation; to inhibit thrombosis; and as a contraceptive.

Sequence 524 BP; 87 A; 165 C; 171 G; 101 T; 0 other;

Query Match 31.9%; Score 88; DB 21; Length 524;
 Best Local Similarity 58.3%; Pred. No. 4.1e-10;
 Matches 154; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

13 TGGAGATGATGAGAGCCACCGCCACAGATGTACGTGATCTGCCCCAGCGGCTTC 72
 298 TGGAGATGATGAGAGCCACCGCCACAGATGTACGTGATCTGCCCCAGCGGCTTC 239

73 ACCCCCTACTGTCGCGCAGGCGCTGTGTCGACTGAGAGAGAGAGAGTGTGCAC 132
 238 ACACCTTACTGTCGCGCAGGCGCTGTGTCGACTGAGAGAGAGAGTGTGCAC 179

133 AGCCCCGGCTACCAACAGCGCCATGCGGGCCGCGACACTGTGTGATTTGTGAAGACT 192
 178 GACCCCAACTGTGTATCCGCAACAGGAAAGTGGGTGTGCTGTGACATCTCTGACGCGG 119

193 CGAGGGAAGAGAGGCGGCATGCGCTTCTCGAGAGAGCTGAAGTTCCACACCGCTGACCTC 252
 118 ACCGGGCAACAGAGGCTACTGCGCTTCTCGAGAGAGCTGAGCTTACTACCGGAGCTG 59

253 TACACCTGTGTCACCGGCTGTGAG 276
 58 TACAGAGGTCTACAGGCAAGAG 35

RESULT 11
 ABRN2534/c
 ID ABRN2534 standard; cDNA; 524 BP.

ABRN2534;
 24-JUN-2002 (first entry)

Human ORFX polynucleotide sequence SEQ ID NO:21545.

Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
 hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
 degenerative disorder; osteoarthritis; neurodegenerative disorder;
 cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
 hypertension; hypothyroidism; cholesterol ester storage disease;
 immune deficiency; immune disorder; infectious disease;
 autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
 myasthenia gravis; gene; ss.

Hom sapiens.

WO200192523-A2.

06-DEC-2001.

29-MAY-2001; 2001WO-US10836.

30-MAY-2000; 2000US-206132P.

29-AUG-2000; 2000US-228716P.

(CURA-) CURAGEN CORP.

Shinkets RA, Leach MD;
 MPI; 2002-106308/14.
 P-PSDB; ABR10782.

Novel human polypeptides and polynucleotides useful for diagnosing,
 preventing and treating cardiovascular disease, neurodegenerative,
 hyperproliferative disorders and autoimmune disorders -

Disclosure; SEQ ID 21545; 1037bp; English.

The present invention describes substantially purified human proteins
 (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
 in the specification)). ABRN15762 to ABRN7252 encode the human ORFX
 proteins given in ABRN0010 to ABRN1500. ORFX proteins are useful for
 treating or preventing a pathology associated with an ORFX-associated
 disorder in humans, and in the manufacture of a medicament for treating a
 syndrome associated with ORFX-associated disorder. ORFX polynucleotide
 sequences can be used in gene therapy. ORFX sequences can be used in the
 treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
 psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
 osteoarthritis, neurodegenerative disorders, disorders related to organ
 transplantation, cardiovascular diseases, diabetes mellitus, systemic
 lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
 storage disease, various immune deficiencies and disorders, infectious
 diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
 arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
 disease and autoimmune inflammatory eye disease. ORFX proteins are also
 useful for treating burns, incisions, ulcers, for treating osteoporosis,
 bone degenerative disorders, or periodontal disease, and for gut
 protection or regeneration and treatment of lung or liver fibrosis.

CC reperfusion injury in various tissues and conditions resulting from
CC systemic cytokine damage.
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 524 BP; 87 A; 165 C; 171 G; 101 T; 0 other;

Query Match 31.9%; Score 88; DB 24; Length 524;
Best Local Similarity 58.3%; Pred. No. 4.1e-10;
Matches 154; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

QY 13 TGGAGATGATGAGAGCCAGCCAGGATCTGACCTGACATCTGCCCCAGCCGCTC 72
DB 298 TGGAGATGATGAGAGCCAGCCAGGATCTGACCTGACATCTGCCCCAGCCGCTC 239
QY 73 ACCCCCTACCTGCGCGGCGGAGGTCCTGCGAGCTGAGAGGAGGAGGTCGAC 132
DB 238 AACCTTACCTGCGCGGAGGTCCTGCGAGCTGAGAGGAGGAGGTCGAC 179
QY 133 AGCCCGGCTCACCAGAGGCGGATGCGGCGGCGGCTGCTGATTTGCTGAGACT 192
DB 178 GACCCCACTGCTGATCCGAAAGGAGGAGGAGGAGGAGGAGGAGGAGG 119
QY 193 CGAGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 252
DB 118 ACCGCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 59
QY 253 TACACCTGCTGACCGGCGCTGAG 276
DB 58 TACAGAGGCTCACAGGAGGAG 35

RESULT 12

AAH08620
ID AAH08620 standard; cDNA; 765 BP.

XX AAH08620;

XX 26-JUN-2001 (first entry)

XX Human cDNA clone (5'-primer) SEQ ID NO:5455.

XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.

XX Homo sapiens.

XX EP1074617-A2.

XX 07-FEB-2001.

XX 28-JUL-2000; 2000EP-0116126.

XX 29-JUL-1999; 99TP-0248036.

XX 27-AUG-1999; 99TP-0300253.

XX 11-JAN-2000; 2000JP-0118767.

XX 02-MAY-2000; 2000JP-0183767.

XX 09-JUN-2000; 2000JP-0241899.

XX (HELI-) HELIX RES INST.

XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J,

XX Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX MPI; 2001-318749/34.

XX Primer sets for synthesizing polynucleotides, particularly the 5602

XX full-length cDNAs defined in the specification, and for the detection

XX and/or diagnosis of the abnormality of the proteins encoded by the

XX full-length cDNAs -

XX Claim 1, SEQ ID 5455; 2537BP + CD ROM, English.

CC The present invention describes primer sets for synthesizing 5602
CC full-length cDNAs defined in the specification. Where a primer set
CC comprises: (a) an oligo-dT primer and an oligonucleotide complementary
CC to the complementary strand of a polynucleotide which comprises one of
CC the 5602 nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in
CC the specification. The primer sets can be used in antisense therapy and
CC in gene therapy. The primers are useful for synthesizing polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any special methods. AAH03166 to AAH13628 and
CC AAH1633 to AAH18742 represent human cDNA sequences; AAH92446 to
CC AAH95893 represent human amino acid sequences; and AAH13629 to AAH1632
CC represent oligonucleotides, all of which are used in the exemplification
CC of the present invention.

XX Sequence 765 BP; 160 A; 236 C; 242 G; 123 T; 4 other;

Query Match 31.9%; Score 88; DB 22; Length 765;
Best Local Similarity 58.3%; Pred. No. 4.2e-10;
Matches 154; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

QY 13 TGGAGATGATGAGAGCCAGCCAGGATCTGACCTGACATCTGCCCCAGCCGCTC 72
DB 177 TGGAGATGATGAGAGCCAGCCAGGATCTGACCTGACATCTGCCCCAGCCGCTC 236
QY 73 ACCCCCTACCTGCGCGGCGGAGGTCCTGCGAGCTGAGAGGAGGAGGTCGAC 132
DB 237 AACCTTACCTGCGCGGAGGTCCTGCGAGCTGAGAGGAGGAGGTCGAC 296
QY 133 AGCCCGGCTCACCAGAGGCGGATGCGGCGGCGGCTGCTGATTTGCTGAGACT 192
DB 297 GACCCCACTGCTGATCCGAAAGGAGGAGGAGGAGGAGGAGGAGGAGG 356
QY 193 CGAGGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 252
DB 357 ACCGCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 416
QY 253 TACACCTGCTGACCGGCGCTGAG 276
DB 417 TACAGAGGCTCACAGGAGGAG 440

RESULT 13

AAH05387
ID AAH05387 standard; cDNA; 2098 BP.

XX AAH05387;

XX 12-SEP-2001 (first entry)

XX Human caspase recruitment domain, CARD-9 cDNA sequence.

XX Human; caspase recruitment domain; CARD-9; Bcl-10; NF-kappaB;

XX apoptosis; hyperproliferative disorder; autoimmune; neurological;

XX inflammatory disorder; viral infection; stress-related response; ss.

XX Homo sapiens.

XX Key

XX CDS Location/Qualifiers

XX WO200140468-A2.

XX 07-JUN-2001.
 PD
 XX
 XX
 PF 01-DEC-2000; 2000WC-US32716.
 XX
 PR 03-DEC-1999; 99US-0168780.
 PR 18-FEB-2000; 2000US-0507533.
 PR 25-FEB-2000; 2000US-0513804.
 PR 10-OCT-2000; 2000US-0685791.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 PI Bertin J;
 XX
 XX
 DR WPI; 2001-367809/38.
 DR P-PSDB; AAU01205.
 XX
 PT Novel caspase recruitment domain (CARD) proteins, CARD-9, CARD-10,
 PT CARD-11, useful as targets for therapy, as immunogens, and in screening
 PT and detection assays -
 XX
 PS Claim 2; Fig 5A-5B; 145pp; English.
 XX

CC The present sequence encoding for novel human caspase recruitment
 CC domain, CARD-9 is isolated from a human megakaryocyte cDNA library.
 CC Also described are novel human sequences for CARD-10 and CARD-11
 CC (AAU01206, AAU01207) and rat CARD-9 (AAU01204). CARD-9, CARD-10 and
 CC CARD-11 interact with Bcl-10 which is thought to activate nuclear factor
 CC (NF)-kappaB and apoptosis. The sequences of the invention can be used for
 CC treating a disorder associated with abnormal levels of apoptosis by
 CC modulating the expression or activity of CARD-9, CARD-10, or CARD-11.
 CC They can be used for the treatment of hyperproliferative disorders
 CC (e.g. cancer), autoimmune disorders (e.g. systemic lupus erythematosus),
 CC neurological disorders (e.g. Alzheimer's disease), inflammatory disorders
 CC (e.g. Crohn's disease), and viral infection (e.g. HIV). The CARD
 CC polypeptide, polynucleotide and an antibody which selectively binds to
 CC CARD can be used in screening and detection assays (e.g. chromosomal
 CC mapping, tissue typing), predictive medicine (prognostic assays),
 CC monitoring clinical trials, and therapy (treatment and prophylaxis). The
 CC CARD polypeptide may be used to screen for drugs that bind to and/or
 CC modulate it. CARD sequences are potential targets for regulating
 CC inflammation, cancer, NF-kappaB signaling, stress-related response and
 CC apoptosis in human disease. A host cell containing a polynucleotide
 CC encoding CARD can be used to create transgenic animals.
 CC
 XX
 SQ Sequence 2098 BP; 455 A; 644 C; 702 G; 297 T; 0 other;

Query Match 31.9%; Score 88; DB 22; Length 2098;
 Best Local Similarity 58.3%; Pred. No. 4.5e-10;
 Matches 154; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

QY 13 TGGGAGATGATGAGAGCCACCGCCACAGATGATGCTGATCTGCCCGCCGCTC 72
 DB 174 TGGAGAGCTCTGGAGGCTTCGGGTGAGCTCACCCTCGATCGACCCCTCAGCATC 233
 QY 73 ACCCCCTACTCTGGAGGCGCAAGTGTCTGCTGCACTGAGAGAGAGAGTGTCTGAC 132
 DB 234 ACACCTTACTCTGGAGGCGCAAGTGTCTGAACTCGATGAGAGAGAGAGTGTCTGAC 293
 QY 133 AGCCCCGGGTCTACCAACAGCGCCATGCGGCGCGGCACTTCTGATTTGCTGAAGCT 192
 DB 294 GACCCCACTGCTATCTCCGAAACGAAAGTGGTGTCTCTCTGACATCTCTGACGGG 353
 QY 193 CGAGGAGAGAGCGGGCCATCGCTTCTTGAGAGGCTGAAGTTCCAAACCTTGAAGTC 252
 DB 354 ACCGGCCACAGAGGCTACGTGGCTTCTCGAGAGCTGAGCTTACTAACCAGAGCTG 413
 QY 253 TACACCTGTGTACCGGGGTGCG 276
 DB 414 TACAGAGGTCAAGGCAAGGAG 437

RESULT 14

ABA00332
 ID ABA00332 standard; cDNA; 2098 BP.
 XX
 AC ABA00332;
 XX
 DT 09-DEC-2002 (first entry)
 XX
 DE Human CARD-9 cDNA.
 XX
 KW Gene; rat; human; caspase recruitment domain; CARD-9; CARD-10;
 KW CARD-11; apoptosis; inflammation; cell growth; cell death;
 KW lymphocyte activation; cancer; melanoma; autoimmune disease;
 KW arthritis; neurological disorder; Alzheimer's disease; ss.
 XX
 OS Homo sapiens.
 XX
 XX
 FH Key Location/Qualifiers
 FT CDS 144..1754
 FT /tag= a
 FT /product= "CARD-9"

WO200270652-A2.
 PD 12-SEP-2002.
 XX
 XX 28-FEB-2002; 2002WC-US06147.
 PF
 PR 02-MAR-2001; 2001US-0798412.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 PI Bertin J;
 XX
 DR WPI; 2002-698749/75.
 DR P-PSDB; AAG79553.

CC CARD-9, CARD-10 or CARD-11 polypeptides and polynucleotides, useful for
 CC treating disorders associated with inappropriate apoptosis or
 CC lymphocyte activation, e.g. cancer -
 PT
 XX
 PS Disclosure; Fig 5; 151pp; English.

CC This sequence encodes human caspase recruitment domain (CARD)-9.
 CC CARD proteins play roles in apoptotic and inflammatory signalling
 CC pathways. CARD-9, -10 and -11 participate in the network of
 CC interactions that modulate caspase activity. They are thought to be
 CC useful as modulating agents for regulating a variety of cellular
 CC processes including cell growth and cell death. CARD proteins and
 CC nucleic acids are useful for treating a disorder associated with
 CC inappropriate apoptosis or lymphocyte activation or for diagnosing
 CC subjects having or that are at risk of developing a disorder associated
 CC with aberrant CARD-9, CARD-10 or CARD-11 expression or activity, such
 CC as cancer e.g. melanoma, autoimmune disorders e.g. arthritis, or
 CC neurological disorders e.g. Alzheimer's disease.

SQ Sequence 2098 BP; 455 A; 644 C; 702 G; 297 T; 0 other;

Query Match 31.9%; Score 88; DB 24; Length 2098;
 Best Local Similarity 58.3%; Pred. No. 4.5e-10;
 Matches 154; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

QY 13 TGGGAGATGATGAGAGCCACCGCCACAGATGATGCTGATCTGCCCGCCGCTC 72
 DB 174 TGGAGAGCTCTGGAGGCTTCGGGTGAGCTCACCCTCGATCGACCCCTCAGCATC 233
 QY 73 ACCCCCTACTCTGGAGGCGCAAGTGTCTGCTGCACTGAGAGAGAGAGTGTCTGAC 132
 DB 234 ACACCTTACTCTGGAGGCGCAAGTGTCTGAACTCGATGAGAGAGAGAGTGTCTGAC 293
 QY 133 AGCCCCGGGTCTACCAACAGCGCCATGCGGCGCGGCACTTCTGATTTGCTGAAGCT 192
 DB 294 GACCCCACTGCTATCTCCGAAACGAAAGTGGTGTCTCTCTGACATCTCTGACGGG 353

QY 193 CGAGGAGAGACGGGGCCATCGCTTCTTGAGAGCCTGAAGTTCCACCAACCTGACGTC 252
 Db 354 ACCGGCCCAAGGCGCTACGTGCGCTTCCTCGAGAGCCTGAGGCTTACTACCCGACGCTG 413
 QY 253 TACACCTGTGTCAACCGGCGCTGCAG 276
 Db 414 TACAAGAGGTTCACGGCAAGAG 437

RESULT 15

AAH18321

ID AAH18321 standard; cDNA; 2176 BP.

AC AAH18321;

DT 26-JUN-2001 (first entry)

DE Human cDNA sequence SEQ ID NO:18327.

XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.

XX Homo sapiens.

XX EP1074617-A2.

XX 07-FEB-2001.

XX 28-JUL-2000; 2000EP-0116126.

XX 29-JUL-1999; 99JP-0248036.

XX 27-AUG-1999; 99JP-0300253.

XX 11-JAN-2000; 2000JP-0118776.

XX 02-MAY-2000; 2000JP-0183767.

XX 09-JUN-2000; 2000JP-0241899.

XX (HELI-) HELIX RES INST.

XX Ota T, Isegai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

XX Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX WPI, 2001-318749/34.

XX Claim 8; SEQ ID 18327; 2537TP + CD ROM; English.

XX The present invention describes primer sets for synthesizing 5602

XX full-length cDNAs defined in the specification. Where a primer set

XX comprises: (a) an oligo-dT primer and an oligonucleotide complementary

XX to the complementary strand of a polynucleotide which comprises one of

XX the 5602 nucleotide sequences defined in the specification, where the

XX oligonucleotide comprises at least 15 nucleotides; or (b) a combination

XX of an oligonucleotide comprising a sequence complementary to the

XX complementary strand of a polynucleotide which comprises a 5'-end

XX sequence and an oligonucleotide comprising a sequence complementary to a

XX polynucleotide which comprises a 3'-end sequence, where the

XX oligonucleotide comprises at least 15 nucleotides and the combination of

XX the 5'-end sequence/3'-end sequence is selected from those defined in

XX the specification. The primer sets can be used in antisense therapy and

XX in gene therapy. The primers are useful for synthesizing polynucleotides,

XX particularly full-length cDNAs. The primers are also useful for the

XX detection and/or diagnosis of the abnormality of the proteins encoded by

XX the full-length cDNAs. The primers allow obtaining of the full-length

XX cDNAs easily without any specialised methods. AAH03166 to AAH13628 and

XX AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to

XX AAH95893 represent human amino acid sequences; and AAH13629 to AAH13632

XX represent oligonucleotides, all of which are used in the exemplification

XX of the present invention.

XX Sequence 2176 BP; 464 A; 657 C; 734 G; 321 T; 0 other;

Query Match 31.9%; Score 86; DB 22; Length 2176;
 Best Local Similarity 58.3%; Pred. No. 4.5e-10;
 Matches 154; Conservative 0; Mismatches 110; Indels 0; Gaps 0;

QY 13 TGGGAGATGATGAGAGAGCCAGCCACAGAGATCGCTGATGCCCCAGCCGCTC 72
 Db 177 TGGAAAGTCTGAGAGGCTTCCGGGTGAGCTCAGCTCGGTGATGACCCCTCAGCAATC 236
 QY 73 ACCCCCTACCTGCGCCAGAGCCAGGTGCTGTGCACTGAGACGAGAGAGTGTGCAAC 132
 Db 237 AACCTTACTTGGCGCAGTGTGAGTCTTGAACCTGATGATGAGAGAGAGTGTGCAAC 296
 QY 133 AGCCCCCGGCTCACCACAGCCAGCCATGCGGCGCCGAGCACTTGATGATTGCTGAAGACT 192
 Db 297 GACCCCAACCTGTGATCGGCAAAAGGAGTGTGCTCTGGAATCTGACAGCGG 356
 QY 193 CGAGGAGAGACGGGCGCATGCGCTTCTTGAGAGCTGAAAGTTCCACCAACCTGACGTC 252
 Db 357 ACCGGCCACAAAGGCTACGTGCTTCTCGAGAGCTGAGACTTACTACCCGACGCTG 416
 QY 253 TACACCTGTGTCAACCGGCGCTGCAG 276
 Db 417 TACAAGAGGTTCACGGCAAGAG 440

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 Job time : 198 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 9, 2004, 17:29:23 ; Search time 41 Seconds
(without alignments)
356.167 Million cell updates/sec

Title: US-10-032-159A-18

Perfect score: 484
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	484	100.0	139	24 ABG76062 Human caspase recr
2	484	100.0	1004	22 AAE07164 Human caspase recr
3	484	100.0	1139	22 AAE07165 Human predicted ca
4	257	53.1	1147	22 AAU01207 Human CARD-11. Ho
5	257	53.1	1147	23 AAG79555 Human CARD-11. Ho
6	257	53.1	1247	24 ABG76061 Human caspase recr
7	237	49.0	1032	22 AAU01206 Human caspase recr
8	237	49.0	1032	23 AAG79554 Human CARD-10. Ho
9	237	49.0	1032	23 AAU73247 Human plakoglobin

10	207	42.8	536	22 AAU01204
11	207	42.8	536	23 AAG79552
12	199	41.1	174	21 AAB41067
13	199	41.1	174	23 ABP10782
14	199	41.1	366	22 AAB95617
15	199	41.1	366	24 ABG76060
16	199	41.1	536	22 AAU01205
17	199	41.1	536	23 AAG79553
18	93	19.2	237	23 AAU73245
19	77	15.9	233	21 AAU59412
20	74	15.3	233	21 AAU59413
21	70	14.5	845	22 ABB62651
22	69	14.3	1416	22 AAU30862
23	68.5	14.2	497	23 ABB98899
24	68	14.0	385	22 AAM93386
25	68	14.0	468	23 ABG97352
26	67.5	13.9	2443	22 ABB60521
27	65.5	13.5	409	19 AAM76074
28	65.5	13.5	409	19 AAM76772
29	65.5	13.5	409	21 AAB11585
30	65.5	13.5	409	23 AAO21364
31	65.5	13.5	422	23 AAO21396
32	65.5	13.5	422	23 AAO21396
33	65.5	13.5	1745	19 AAM76068
34	65.5	13.5	1745	19 AAM76776
35	65.5	13.5	1745	21 AAB11589
36	65.5	13.5	1745	23 AAO21368
37	65	13.4	639	22 ABB65465
38	65	13.4	669	22 ABB77378
39	65	13.4	676	22 ABB59964
40	65	13.4	676	22 ABB66818
41	65	13.4	1266	22 AAE22544
42	64	13.2	221	24 ABR47523
43	64	13.2	412	22 AAM93214
44	63.5	13.1	71	23 ABR31924
45	63.5	13.1	454	24 ABR41293

ALIGNMENTS

RESULT 1
ABG76062
ID ABG76062 standard; protein; 139 AA.

AC ABG76062;
XX 09-MAY-2003 (first entry)

DE Human caspase recruitment domain containing protein, CARD-12X.

XX CARD; caspase recruitment domain; apoptosis; cell adhesion; inflammation;
XX cytokine receptor signalling; cancer; glioma; carcinoma; adenocarcinoma;
XX CARD-containing polypeptide associated disorder; sarcoma; melanoma;
XX hamartoma; leukaemia; lymphoma; keratinocyte hyperplasia; neoplasia;
XX keloid; benign prostatic hypertrophy; inflammatory hyperplasia; fibrosis;
XX restenosis; allergy; arthritis; lupus; Sjogren's syndrome; sepsis; human;
XX Crohn's disease; ulcerative colitis; graft versus host disease; stroke;
XX abnormal cell death disease; myocardial infarction; heart failure;
XX neurodegenerative disease; Parkinson's disease; Alzheimer's disease; HIV;
XX CARD-12X; caspase activator; caspase inhibitor.

OS Homo sapiens.

XX Key Location/Qualifiers
XX FT 16..107
XX Domain /label= CARD

XX FT /note= "Caspase recruitment domain. Specifically
XX FT /note= claimed in claim 12"

XX Misc-difference 139
XX FT /label= Unknown
XX FT /note= "Encoded by GNN"

PN	US2002164793-A1.
XX	
PD	07-NOV-2002.
XX	
PF	19-DEC-2001; 2001US-0032159.
XX	
PR	21-DEC-2000; 2000US-257457P.
XX	
PA	(PAWL/) PAWLOWSKI K.
XX	
PA	(REED/) REED J C.
XX	
PI	(GODZ/) GODZIK A.
XX	
PT	Pawlowski K, Reed JC, Godzik A;
XX	
DR	WEI; 2003-286137/28.
XX	
DR	N-PSDB; ABX11431.
XX	
PT	New isolated CARD-containing nucleic acids, useful for the diagnosis
XX	
PT	and treatment of disorders with aberrant expression or activity of the
XX	
PT	CARD-containing polypeptide, such as cancer, stroke, arthritis, heart
XX	
PT	failure and AIDS -
XX	
PS	Claim 11; Fig 3; 34pp; English.
XX	
CC	The invention relates to an isolated nucleic acid molecule encoding a
XX	
CC	caspase recruitment domain (CARD) containing polypeptide. CARD containing
XX	
CC	polypeptides are involved in apoptosis (as caspase activators and caspases
XX	
CC	inhibitors), cell adhesion, inflammation and cytokine receptor
XX	
CC	signalling. The methods and compositions of the present invention are
XX	
CC	useful for the diagnosis and treatment of disorders associated with the
XX	
CC	aberrant expression or activity of the CARD containing polypeptide such
XX	
CC	as cancer, glioma, carcinoma, adenocarcinoma, sarcoma, melanoma, keloid,
XX	
CC	hamatoma, leukaemia, lymphoma, keratinocyte hyperplasia, neoplasia,
XX	
CC	benign prostatic hypertrophy, inflammatory diseases such as arthritis, lupus,
XX	
CC	restenosis, allergies, inflammatory diseases such as Crohn's disease,
XX	
CC	Sjogren's syndrome, Crohn's disease, ulcerative colitis, graft versus
XX	
CC	host disease, sepsis, abnormal cell death diseases such as stroke,
XX	
CC	myocardial infarction, heart failure, neurodegenerative diseases like
XX	
CC	Parkinson's disease and Alzheimer's disease, and HIV infection. The
XX	
CC	present sequence represents the amino acid sequence of the human
XX	
CC	caspase recruitment domain containing protein, CARD-12X.
XX	
SO	Sequence 139 AA;
XX	
Query Match	100.0%; Score 484; DB 24; Length 139;
Best Local Similarity	100.0%; Pred. No. 3.2e-57;
Matches 92; Conservative	0; Mismatches 0; Indels 0; Gaps 0
QY	1 EETLWMEMESHRRIRYRCICPSRLTFYLGAQAVLCQDDEEFTHSRRTLSNAPSAGHLD 60
DB	16 EETLWMEMESHRRIRYRCICPSRLTFYLGAQAVLCQDDEEFTHSRRTLSNAPSAGHLD 75
QY	61 LKTRGNKAIAFLAESKTPNPVVYLYLTGLQ 92
DB	76 LKTRGNKAIAFLESKTPNPVVYLYLTGLQ 107
RESULT 2	
ID	AAE07164 standard; Protein; 1004 AA.
XX	AAE07164:
AC	
XX	
DT	06-NOV-2001 (first entry)
XX	
DE	Human caspase recruitment domain-14 (CARD-14).
XX	
XX	Human, caspase recruitment domain-14; CARD-14; chromosome 17;
KW	nuclear factor-kappa B; NF-kB; cell growth; cell death; cancer; therapy;
KM	autoimmune disorder; systemic lupus erythematosus; neurological disorder
KW	Alzheimer's disease; Parkinson's disease; inflammatory disorder; anaemia
KM	haematological disorder; myelodysplastic syndrome; myocardial infarction
KW	stroke; immune disorder; Crohn's disease; allergic rhinitis; infection;

KM	cell signalling disorder; cytotoxic; immunosuppressive; nootropic;
KN	neuroprotective; antiviral; antibacterial.
XX	
OS	Homo sapiens.
XX	
XX	
FT	Key
FT	Modified-site
FT	/note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
FT	10.,.116
FT	Domain
FT	/label= CARD_domain
FT	12.,.15
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	18.,.21
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	25.,.27
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	60.,.62
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	91.,.93
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	114.,.117
FT	Modified-site
FT	/note= "N-glycosylation site"
FT	117.,.122
FT	Modified-site
FT	/note= "N-myristoylation site"
FT	121.,.123
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	126.,.420
FT	Domain
FT	/label= Coiled_Coil_domain
FT	130.,.135
FT	Modified-site
FT	/note= "N-myristoylation site"
FT	134.,.137
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	161.,.166
FT	Modified-site
FT	/note= "N-myristoylation site"
FT	165.,.168
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	220.,.227
FT	Modified-site
FT	/note= "Tyrosine kinase phosphorylation site"
FT	221.,.224
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	239.,.325
FT	Domain
FT	/label= K-Box_domain
FT	240.,.243
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	250.,.252
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	253.,.256
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	259.,.262
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	280.,.283
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	290.,.293
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	297.,.300
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	307.,.309
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	307.,.310
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	359.,.365
FT	Modified-site
FT	/note= "Tyrosine kinase phosphorylation site"
FT	366.,.368
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	366.,.369
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	378.,.381
FT	Modified-site
FT	/note= "Casein kinase II phosphorylation site"
FT	384.,.386
FT	Modified-site
FT	/note= "Protein kinase C phosphorylation site"
FT	385.,.406
FT	Region
FT	/note= "Leucine zipper pattern"

FT Modified-site 449..452
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 463..466
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 463..465
 /note= "Protein kinase C phosphorylation site"
 FT Modified-site 470..472
 /note= "Protein kinase C phosphorylation site"
 FT Modified-site 501..504
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 511..516
 /note= "N-myristoylation site"
 FT Domain 568..660
 /label= PDZ_domain
 FT Modified-site 587..592
 /note= "N-myristoylation site"
 FT Modified-site 589..592
 /note= "N-glycosylation site"
 FT Modified-site 602..605
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 634..637
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 653..655
 /note= "Protein kinase C phosphorylation site"
 FT Modified-site 674..677
 /note= "Casein kinase II phosphorylation site"
 FT Domain 676..745
 /label= SH3_domain
 FT Modified-site 714..719
 /note= "N-myristoylation site"
 FT Modified-site 725..727
 /note= "Protein kinase C phosphorylation site"
 FT Modified-site 725..728
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 733..738
 /note= "N-myristoylation site"
 FT Modified-site 737..740
 /note= "N-glycosylation site"
 FT Modified-site 759..761
 /note= "Protein kinase C phosphorylation site"
 FT Modified-site 760..763
 /note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
 FT Peptide 785..793
 /note= "peroxisomal targeting signal"
 FT Modified-site 796..799
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 800..805
 /note= "N-myristoylation site"
 FT Domain 826..1004
 /label= Guanylate_kinase_domain
 FT Modified-site 842..844
 /note= "Protein kinase C phosphorylation site"
 FT Modified-site 860..863
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 868..870
 /note= "Protein kinase C phosphorylation site"
 FT Region 870..872
 /note= "RGD cell attachment sequence"
 FT Modified-site 893..896
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 926..929
 /note= "Casein kinase II phosphorylation site"
 FT Peptide 941..949
 /note= "peroxisomal targeting signal"
 FT Modified-site 944..947
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 976..979
 /note= "Casein kinase II phosphorylation site"
 FT Modified-site 980..985
 /note= "N-myristoylation site"
 FT Modified-site 1002..1004
 /note= "Protein kinase C phosphorylation site"

XX
 PN WO200159065-A2.
 XX
 PD 16-AUG-2001.
 XX
 XX 22-JAN-2001; 2001WO-US02087.
 XX
 PF 09-FEB-2000; 2000US-0181159.
 XX
 PR (MILL-) MILLENNIUM PHARM INC.
 XX
 PA
 PI Bertin J;
 XX
 DR WPI; 2001-497073/54.
 XX
 DR N-PSDB; AADI3447.
 XX
 PT An isolated caspase recruitment domain polypeptide useful for
 PT regulating growth and cell death and useful for the treatment of cancer
 PT
 PS Claim 1; Fig 1A-1E; 109pp; English.
 XX
 PS The present sequence is human caspase recruitment domain-14 (CARD-14).
 CC The CARD-14 gene is located on chromosome 17. The CARD-14 is used for
 CC the detection of modulators that modulates the ability of CARD-14 to
 CC bind to Bcl-10 and stimulates phosphorylation of Bcl-10 or activation
 CC of nuclear factor-kappa B (NF-kB). The CARD-14 is useful for regulation
 CC growth and cell death and useful for the treatment of cancer. It is
 CC also useful for the treatment of autoimmune disorders (e.g., systemic
 CC lupus erythematosus), neurological disorders (e.g., Alzheimer's and
 CC Parkinson's disease, inflammatory disorders, hematological disorders
 CC (e.g., anaemia, myelodysplastic syndromes), myocardial infarctions,
 CC strokes, immune disorders (e.g., Crohn's disease, allergic rhinitis),
 CC cell signalling disorders and certain viral and bacterial infections.
 XX
 SQ Sequence 1004 AA;
 Query Match 100.0%; Score 484; DB 22; Length 1004;
 Best Local Similarity 100.0%; Pred. No. 4.9e-56;
 Matches 92; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 EETLWEMESHRRHRIVCICPSRLTPYLRQAVLCQDDEEVLHSPRLTNSAMRAGHLID 60
 DB 16 EETLWEMESHRRHRIVCICPSRLTPYLRQAVLCQDDEEVLHSPRLTNSAMRAGHLID 75
 QY 61 LKTRGKNGAIAFLBSLKFHNPVYTLVTGLQ 92
 DB 76 LKTRGKNGAIAFLBSLKFHNPVYTLVTGLQ 107
 RESULT 3
 AAE07165
 ID AAE07165 standard; Protein; 1139 AA.
 XX
 AC AAE07165;
 XX
 DT 06-NOV-2001 (first entry)
 XX
 XX Human predicted caspase recruitment domain-14 (CARD-14).
 DE Human; caspase recruitment domain-14; CARD-14; chromosome 17;
 XX nuclear factor-kappa B; NF-kB; cell growth; cell death; cancer; therapy;
 KM autoimmune disorder; systemic lupus erythematosus; neurological disorder;
 KM Alzheimer's disease; Parkinson's disease; inflammatory disorder; anaemia;
 KM haematological disorder; myelodysplastic syndrome; myocardial infarction;
 KM stroke; immune disorder; Crohn's disease; allergic rhinitis; infection;
 KM cell signalling disorder; cytostatic; immunosuppressive; neurotropic;
 KM neuroprotective; antiviral; antibacterial.
 KM Homo sapiens.
 OS
 XX
 XX Key Location/Qualifiers
 FH Misc-difference 700

FT	/note= "Encoded by TGG"
XN	WC2001S9065-A2.
PD	16-AUG-2001.
PF	22-JAN-2001; 2001WO-USO2087.
XX	
PR	09-FEB-2000; 2000US-O181159.
PA	(MILL-) MILLENNITUM PHARM INC.
PI	Bertin J;
XX	
DR	WPI; 2001-497073/54.
N-PDSB; MAD13448.	
PT	An isolated caspase recruitment domain polypeptide useful for regulating growth and cell death and useful for the treatment of cancer
-	
PS	Disclosure; Fig 2A-2C; 109pp; English.
CC	The present sequence is predicted human caspase recruitment domain-14 (CARD-14). The CARD-14 gene is located on chromosome 17. The CARD-14 is used for the detection of modulators that modulates the ability of CARD-14 to bind to Bcl-10 and stimulates phosphorylation of Bcl-10 or activation of nuclear factor-kappa B (NF-KB). The CARD-14 is useful for regulation of growth and cell death and useful for the treatment of cancer. It is also useful for the treatment of autoimmune disorders (e.g., systemic lupus erythematosus), neurological disorders e.g., Alzheimer's disease and Parkinson's disease, inflammatory disorders, hematological disorders (e.g., anemia), myelodysplastic syndromes), myocardial infarctions, strokes, immune diseases (e.g., Crohn's disease, allergic rhinitis), cell signalling disorders and certain viral and bacterial infections.
SQ	Sequence 1139 AA;
Query Match	100.0%; Score 484; DB 22; Length 1139;
Best Local Similarity	100.0%; Pred.No. 5.8e-56;
Matches	92; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1 BETLWMESHRRIRVRCICPESRLIPYLROAVYLCQLDBEEFYHSPRILNSAMRGHLID 60 BTTLMMSSHHRIIVRCICPESESLIPLKRAVLCLQBDEEFLTHSPRILNSAMRGHLID 60 Db 16 BETLWMESHSHRHVRICPCSRLLTPPYLRQAVALQLDBEEFVLSPPRLNSAMRGHLID 75 BTTRGKGALIAFLLESILKFHNPDVTLTVGLO 92 BTTRGKGALIAFLLESILKFHNPDVTLTVGLO 107 BTTRGKGALIAFLLESILKFHNPDVTLTVGLO 107
RESULT 4	
AADU01207	
ID	AADU01207 standard; Protein; 1147 AA.
XX	
AC	AADU01207;
DT	12-SEP-2001 (first entry)
XX	
DE	Human caspase recruitment domain, CARD-11 polypeptide.
KM	Human; caspase recruitment domain; CARD-11; Bcl-10; NF-kappab,
XX	apoptosis; hyperproliferative disorder; autoimmune; neurological;
OS	Homo sapiens.
FH	Key Location/Qualifiers
FT	Domain 6..112
FT	/note= "CARD domain"
FT	Modified-site 7..9
FT	/note= "Protein kinase C phosphorylation site"
FT	Modified-site 7..10

PT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	100..102
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	100..103
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	105..107
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	106..109
FT		/note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
FT	Domain	130..431
FT		/note= "Coiled coil domain"
FT	Modified-site	162..165
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	168..171
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	175..183
FT		/note= "Tyrosine kinase phosphorylation site"
FT	Modified-site	182..185
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	189..195
FT		/note= "Tyrosine kinase phosphorylation site"
FT	Modified-site	241..244
FT		/note= "N-glycosylation site"
FT	Modified-site	243..245
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	282..285
FT		/note= "Amidation site"
FT	Modified-site	286..289
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	290..292
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	378..381
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	429..432
FT		/note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
FT	Modified-site	459..461
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	471..474
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	472..475
FT		/note= "N-glycosylation site"
FT	Modified-site	476..479
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	508..510
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	510..513
FT		/note= "cAMP- and cGMP-dependent protein kinases phosphorylation site"
FT	Modified-site	558..560
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	578..581
FT		/note= "Casein kinase II phosphorylation site"
FT	Modified-site	584..587
FT		/note= "N-glycosylation site"
FT	Modified-site	587..592
FT		/note= "N-myristoylation site"
FT	Modified-site	634..637
FT		/note= "cAMP- and cGMP-dependent protein kinases phosphorylation site"
FT	Domain	635..748
FT		/note= "PDZ domain"
FT	Domain	635..1147
FT		/note= "MAGUK domain"
FT	Modified-site	638..641
FT		/note= "Glycosaminoglycan attachment site"
FT	Modified-site	678..683
FT		/note= "N-myristoylation site"
FT	Modified-site	687..689
FT		/note= "Protein kinase C phosphorylation site"
FT	Modified-site	692..695
FT		/note= "Casein kinase II phosphorylation site"

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OM nucleic - nucleic search, using sw model

Run on: February 17, 2004, 21:36:16 ; Search time 2065.14 Seconds

(without alignments)
8260.598 Million cell updates/sec

Title: US-10-032-159a-15

Perfect score: 417
Sequence: 1 atgggggaactgctgcgcgag.....ggctcctgtaaccccaagm 417

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl:*
1: gb_ba:*
2: gb_hg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_str:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_str:*
28: em_un:*
29: em_vl:*
30: em_hg_hum:*
31: em_hg_inv:*
32: em_hg_other:*
33: em_hg_mus:*
34: em_hg_pln:*
35: em_hg_rtd:*
36: em_hg_mam:*
37: em_hg_vrt:*
38: em_sy:*
39: em_hgo_hum:*
40: em_hgo_mus:*
41: em_hgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	351	84.2	2621	9 BC018142
2	351	84.2	3682	9 AY032927
3	351	84.2	3766	9 AK091123
4	351	84.2	3931	9 AF322642
5	264.6	63.5	3772	10 AF363457
6	264.6	63.5	3995	10 BC029102
7	212	50.8	55173	2 AC132816
8	212	50.8	144000	9 AC123764
9	212	50.8	182016	9 AC087741
10	212	50.8	187865	2 AC015559
11	212	50.8	257822	2 AC109321
12	205	49.2	55173	2 AC132816
13	188.8	45.3	74301	2 AC137736
14	156	37.4	65608	2 AC132197
15	154.6	37.1	244653	10 AL645911
16	117.8	28.2	3096	6 AX154570
17	117.8	28.2	3908	9 AY032928
18	117.8	28.2	3948	6 AX300499
19	117.8	28.2	3949	6 AX154568
20	117.8	28.2	3949	9 AY028896
21	113	27.1	4085	10 AY135367
22	110.2	26.4	4438	10 AF363456
23	104	24.9	3441	6 AX154573
24	104	24.9	3955	6 AF352576
25	104	24.9	4276	6 AX154571
26	104	24.9	4276	9 AF322641
27	104	24.9	4293	9 AK074049
28	94.4	22.6	765	6 BD150612
29	94.4	22.6	1608	6 AX154567
30	94.4	22.6	2098	6 AX154565
31	94.4	22.6	2132	9 AF311287
32	94.4	22.6	2176	6 BD160313
33	94.4	22.6	2176	9 AK024001
34	92.8	22.3	1836	9 BC008877
35	87.6	21.0	3164	10 BC004692
36	85.2	20.4	1608	6 AX154564
37	85.2	20.4	1879	6 AX154562
38	85.2	20.4	1879	10 AF311288
39	74.8	17.9	96256	9 HS117715
40	74	17.7	239392	2 AC115417
41	74	17.7	245032	2 AC109749
42	70.8	17.0	187446	2 AC124374
43	70.8	17.0	225027	2 AC131725
44	69.2	16.6	161985	10 AL592169
45	69.2	16.6	217819	2 AC026386

ALIGNMENTS

RESULT 1
LOCUS BC018142
DEFINITION Homo sapiens, similar to caspase recruitment domain protein 14,
clone MGC:9539 IMAGE:3847282, mRNA, complete cds.
ACCESSION BC018142
VERSION BC018142.1 GI:17390314
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 2621)
AUTHORS Strausberg, R.
TITLE Direct Submission